# VPDES PERMIT PROGRAM FACT SHEET

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a MAJOR INDUSTRIAL permit.

I. PERMIT NO.: VA0004162 EXPIRATION DATE: November 15, 2015 2. FACILITY NAME AND LOCAL MAILING ADDRESS FACILITY LOCATION ADDRESS (IF DIFFERENT) International Paper - Franklin Mill 34040 Union Camp Drive same Franklin, VA 23851 CONTACT AT FACILITY: NAME: Sheryl S. Raulston CONTACT AT LOCATION ADDRESS TITLE: EHS Manager NAME: Raye Moore PHONE: (757) 569-4558 TITLE . PHONE: (757) 569-4793 3 OWNER CONTACT: (TO RECEIVE PERMIT) NAME: Sheryl S. Raulston CONSULTANT CONTACT: TITLE: EHS Manager NAME: COMPANY NAME: (IF DIFFERENT) FIRM NAME: ADDRESS: 34040 Union Camp Drive ADDRESS: Franklin, VA 23851 PHONE: (757) 569-4558 EMAIL: PHONE: ( EMAIL: PERMIT DRAFTED BY: DEQ, Water Permits, Regional Office Permit Writer(s): Sauer Reviewed By: Date(s): 2-2012 Date(s): 5. PERMIT ACTION: ( ) Issuance ( ) Reissuance () Board Modification () Change of Ownership/Name [Effective Date: (X) Owner Modification SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS: 6. Attachment 1 Site Inspection Report/Memorandum Attachment Discharge Location/Topographic Map Attachment Schematic/Plans & Specs/Site Map/Water Balance 3 Attachment\_ TABLE I - Discharge/Outfall Description Attachment TABLE II - Effluent Monitoring/Limitations Attachment 6 Effluent Limitations/Monitoring Rationale/Suitable Data/Antidegradation/Antibacksliding Attachment Special Conditions Rationale Attachment Toxics Monitoring/Toxics Reduction/WET Limit Rationale  ${ t Attachment}_{ t }$ Receiving Waters Info./Tier Determination/STORET Data/Stream Modeling/303(d) Listed Segments Attachment TABLE III(a) and TABLE III(b) - Change Sheets 10 Attachment 11 NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist Attachment 12 Attachment 13 Public Participation/Pertinent Correspondence

APPLICATION COMPLETE: 2/15/12, upon VDH comments

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PERMIT CHARACTERIZATION: (Check as many as appropriate)
   7.
         (X) Existing Discharge
         ( ) Proposed Discharge
                                            (X) Effluent Limited
         ( ) Municipal
                                            (X) Water Quality Limited
             SIC Code(s)
                                            ( ) WET Limit
         (X) Industrial
                                           ( ) Interim Limits in Permit
             SIC Code(s)2611
                                           ( ) Interim Limits in Other Document
        ( ) POTW
                                           ( ) Compliance Schedule Required
        ( ) PVOTW
                                           ( ) Site Specific WQ Criteria
        (X) Private
                                           ( ) Variance to WQ Standards
        ( ) Federal
                                           ( ) Water Effects Ratio
        ( ) State
                                           (X) Discharge to 303(d) Listed Segment
        ( ) Publicly-Owned Industrial
                                          (X) Toxics Management Program Required
                                          () Toxics Reduction Evaluation
                                          (X) Storm Water Management Plan
                                          ( ) Pretreatment Program Required
                                          (X) Possible Interstate Effect
                                          ( ) CBP Significant Dischargers List
8.
     Outfall No(s).
                                    Receiving Stream
        001 (and internal
     Outfall 103)
                                   Blackwater River
                                   River Mile: 5ABLW000.62
                                   Basin: Chowan and Dismal Swamp
                                   Subbasin: Chowan River
                                   Section: 1
                                   Class: II
                                  Special Standard(s): NEW-21
                                  7-Day/10-Year Low Flow: 1.36 MGD (Nov-Mar)
                                  1-Day/10-Year Low Flow: 0.22 MGD (Nov-Mar)
                                  30-Day/5-Year Low Flow: 29.3 MGD (Nov-Mar)
                                  Harmonic Mean Flow:
                                                           702.2 MGD (Nov-Mar)
                                 Tidal:
            002
                                                           YES
                                 Blackwater River
                                 River Mile: 5ABLW0013.73
                                 Basin: Chowan and Dismal Swamp
                                 Subbasin: Chowan River
                                 Section: 1
                                Class: II
                                Special Standard: NEW-21
                                7-Day/10-Year Low Flow: 1.36 MGD (Nov-Mar)
                                1-Day/10-Year Low Flow: 0.22 MGD (Nov-Mar)
                                30-Day/5-Year Low Flow: 29.3 MGD (Nov-Mar)
                               Harmonic Mean Flow:
                                                         702.2 MGD (Nov-Mar)
                               Tidal:
 006, 007, 010,
                                                         YES
 012, 013, 014
                               Washole Creek
                               River Mile: 5AKNG000.04
                               Basin: Chowan and Dismal Swamp
                              Subbasin: Chowan River
                              Section: 2
                              Class: VII
                              Special Standard: NEW-21
                              7-Day/10-Year Low Flow:
                              1-Day/10-Year Low Flow:
                                                                  MGD
                             30-Day/5-Year Low Flow:
                                                             N/A MGD
                             Harmonic Mean Flow:
                                                             N/A MGD
                                                             N/A MGD
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008, 009, 011

Tidal:

NO

Kingsale Swamp

River Mile: 5AKNG004.66

Basin: Chowan and Dismal Swamp

Subbasin: Chowan River

Section: 2 Class: VII

Special Standard: NEW-21

7-Day/10-Year Low Flow: 1-Day/10-Year Low Flow: 0 MGD 30-Day/5-Year Low Flow: N/AMGD N/A MGD Harmonic Mean Flow:

N/A MGD

Tidal.

NO

015

Beaverdam Swamp

River Mile:

Basin: Chowan and Dismal Swamp

Subbasin: Chowan River

Section: 2 Class: VII

Special Standard: NEW-21

7-Day/10-Year Low Flow: 1-Day/10-Year Low Flow: MGD 30-Day/5-Year Low Flow: N/A MGD

Harmonic Mean Flow:

N/AMGD

Tidal:

N/A MGD

NO

FACILITY DESCRIPTION: Describe the type facility from which the discharges 9. originate.

Existing and proposed industrial discharge resulting from the past manufacture of bleached printing paper and paperboard. The facility ceased paper making operations in April 2010, but discharges from the facility remained during the closed and clean-up phase of the plant. Future operations include operation as a pulp mill and will once again result in process wastewater discharges from ongoing

THE MODIFICATION CONSISTS OF addressing new pulp mill operations as a result of repurposing the mill. One internal outfall (103, the F bleach line), which was removed from the permit at reissuance in accord with ceasing operations at the plant, will be included in the permit with associated monitoring and limitations and all associated special conditions for the pulp mill operation will be included in the modified permit. Some effluent limitations were recalculated based on the mill repurposing at outfall 001. An effluent characterization for outfall 001 will be required with the application for reissuance. An effluent characterization for outfall 009 will be required with the application for reissuance based on reported spills to the storm water outfall. See Attachment 10 for all changes as part of

- 10. LICENSED OPERATOR REQUIREMENTS: ( ) No (X) Yes Class:
- 11. RELIABILITY CLASS: Industrial Facility - NA

	12. SITE INSPECTION DATE: 1/25/11 PRODUCTION
	REPORT DATE: 1/27/17
	Performed By: Gantt
	SEE ATTACHMENT 1
· I	DISCHARGE(S) LOCATION DESCRIPTION: Provide USGS Topo which indicates the discharge and other items of interest
	location, significant (large) at Provide USGS Topo which indignate
	location, significant (large) discharger(s) to the receiving stream, water intakes,
	On the same water intakes,
	Outfall 001: Name of Topo: Riverdale Quadrant No.: 05C
	Outfalls 002 006
	Name of Topo. B. A
	007, 010, 012, 013, 014, 015
	Outfalls 008, Name of Topo: Holland Quadrant No. 201
	009, 011 Value of Topo: Holland Quadrant No.: 05A
	SEE ATTACHMENT 2
•	
14	
	INDUSTRIAL FACILITIES PROVIDES TREATMENT SYSTEM(S) [IND. S. MID.
	INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND TREATMENT PROVIDED.
	ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND TREATMENT PROVIDED.
	SEE ATTACHMENT 3
15.	
15.	DISCHARGE DESCRIPTION: Describe each discharge originating from this facility.  SEE ATTACHMENT 4
	SEE ATTACHMENT 4
16.	COMBINED TOTAL FLOW:
	· ·
	TOTAL: 126 MGD (for public
	MGD (for public notice)
	PROCESS FLOW: 125 MGD (IND.)
	NONPROCESS/RAINFALL DEPENDENT FLOW: 1 MGD (Est )
	DESIGN FLOW.
17.	MGD (MUN.)
1/.	STATUTORY OR REGULATORY BASIS FOR PERFORMANCE
	STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS:
	X State Water Control Law Clean Water Act
	X VPDES Permit Daniel
	X VPDES Permit Regulation (9 VAC 25-31-10 et seq.)  X EPA NPDES Regulation (Federal Registration)
	A EPA Effluent Cuidali Register)
	X Water Quality Standard (40 CFR 133 or 400 - 471)
	X Water Quality Standards (9 VAC 25-260-5 et seq.)  X Wasteload Allocation from a TMDL or River Basin Plan
18.	or River pagin pa
	TITUCKY LIMITATIONS ASSESSED
	requirements being placed on each outfall.  EFFLUENT LIMITATIONS/MONITORING: Provide all limitations and monitoring
	SEE TABLE II - ATTACHMENT 5
	ALTACHMENT 5

EFFLUENT LIMITATIONS/MONITORING RATIONALE: Attach any analyses of an outfall by 19. individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or antibacksliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

# OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

N/A

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).

SPECIAL CONDITIONS RATIONALE: Provide a rationale for each of the permit's special 20.

SEE ATTACHMENT 7

TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE: 21. Provide the justification for any toxics monitoring program and/or toxics reduction

SEE ATTACHMENT 8 (no change from the reissuance of this permit)

22. SLUDGE DISPOSAL PLAN: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

N/A

23. MATERIAL STORED: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

To be included in the O&M Manual for the repurposed plant

24. RECEIVING WATERS INFORMATION: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

#### SEE ATTACHMENT 9

25 <u>305(b)/303(d) Listed Segments</u>: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to the Blackwater River. The receiving stream segment has been listed as a Category 4C of the 305b /303d list for non attainment of dissolved oxygen. No TMDL is required for Dissolved Oxygen since a Natural Conditions Report was EPA approved 4/8/2010. The permit requires in-stream monitoring for dissolved oxygen and has discharge conditions based on the in-stream dissolved oxygen concentration. The permit contains a TMDL reopener clause which will allow these requirements to be modified, in compliance with section 303(d)(4) of the Act once a TMDL is approved.

This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of mercury (fish tissue). A TMDL has not been prepared or approved for this stream segment. No limit for mercury is included in this permit as that pollutant is either absent from the effluent or contained in such low concentrations as to not cause or contribute to the non-attainment of the stream segment. The permit contains a TMDL reopener clause which will allow the permit to be modified, in compliance with section 303(d)(4) of the Act once a TMDL is approved.

Receiving waters conditions and impairments/TMDL's will be further evaluated at the reissuance of the permit. No external discharges or river conditions are affected as part of this modification.

SEE ATTACHMENT 9

26. CHANGES TO PERMIT: Use TABLE III(a) to record any changes from the previous permit and the rationale for those changes. Use TABLE III(b) to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

27. NPDES INDUSTRIAL PERMIT RATING WORKSHEET:

TOTAL SCORE: 140 SEE ATTACHMENT 11

28. <u>DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT</u>: Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. <u>PUBLIC PARTICIPATION</u>: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit. Letter dated 2/13/12.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

The draft permit was sent to North Carolina and no comments were received.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date March 9, 2012 End Date April 9, 2012

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Mark H. Sauer at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2105 E-mail: mark.sauer@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

## ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

Doug Domenech Secretary of Natural Resources TIDEWATER REGIONAL OFFICE 5636 Southern Boulevard, Virginia Beach, Virginia 23462 (757) 518-2000 Fax (757) 518-2009 www.deq.virginia.gov

David K. Paylor Director

March 8, 2011

Via Email Ms. Sheryl Raulston International Paper Co. 34040 Union Camp Drive Franklin, VA 23851

Re: Inspection Report

International Paper Co. - Franklin Mill (VA0004162)

Dear Ms. Raulston:

Enclosed is a copy of the report prepared for the inspection conducted at your facility on January 25, 2011. No problems or deficiencies were noted during the inspection and you and your staff are to be commended for your efforts.

If you have any questions regarding this report, please feel free to contact me at the above address, telephone (757) 518-2114 or email clyde.gantt@deq.virginia.gov.

Sincerely,

Clyde K. Gantt

VPDES/VPA Permit Inspector

Enclosure

cc: DEQ/OWCP: Steve Stell

DEQ/TRO: File USEPA Region III

Facility:	INTERNATIONAL PAPER CO.
County/city:	FRANKLIN

VPDES NO. VA0004162

# DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART 1

Inspection date:		Jan	uary 25,	2011	Date	form c	ompleted:		January 27, 2011				
Inspection by:		C	lyde Gan	ıtt	Inspe	ection a	gency:		DEQ/TRO				
Time spent:			15 Hours	3	Announced Inspection: [X] Yes [] No								
Reviewed by: Kenneth T	. Raum	/ 02-11-11	-		Photographs taken at site? [X] Yes [] No								
Present at inspection:		Sheryl R	aulston –	EHS Mgr.:	.; Raye Moore – Env. Spec., John Bunch – Env. Tech								
FACILITY TYPE:					]	ACILI	TY CLASS:						
( ) Municipal						X) Ma	jor						
(X) Industrial							nor .		,	-			
( ) Federal					(	( ) Small							
( ) VPA/NDC				_	(	) Hig	gh Priority (	) Low Pr	iority				
TYPE OF INSPECTION;													
Routine	X	Reir	spection			Compliance/assistance/complaint							
Date of previous inspection	n:		Jı	ıly 15, 2008	3	Agency: DEQ/TRO							
				1	1								
Last Full Month Average: Effluent 001		BOD <sub>5</sub> (mg/l)	9	TSS (mg/l)	و	<b>).</b> 7	Flow (MGD)	74	NH <sub>3</sub> (mg/l)	0.25			
January 2010		Other:	60 mg/l, T	P – 1.04 mg	g/l, TN	-2.41	mg/l						
Has there been any new co	nstructi	on?	-			YES			NO	X			
If yes, were the plans and specifications approved?							YES		NO				
DEQ approval date:													
COPIES TO: (X) DEQ/	ΓRO; (2	X) DEQ/OV	VCP; (X)	OWNER;	( ) OP	ERATO	OR; (X) EPA-Reg	ion III; ()	Other:				

FACIL	ITY: International Paper Co Franklin										VAC	004162
	PLANT OPE	RATI	ON A	ND MA	NTEN	ANCE						
1.	Class/number of licensed operators:	I	1	n		m		IV		Tra	inee	
2.	Hours per day plant manned?							24				,
3.	Describe adequacy of staffing			GOO	D		AVE	RAGE	X	PO	OR	
4.	Does the plant have an established program for train	ning p	ersoni	nel		·	•		YES		NO	N/A
5.	Describe the adequacy of training		N.	GOO	D		AVE	RAGE		PO	OR	N/A
6.	Are preventative maintenance tasks scheduled					·			YES		NO	X
7.	Describe the adequacy of maintenance			GOO	D		AVE	RAGE	X	PO	OR	
	Does the plant experience any organic/hydraulic overloading?							YES		NO	X	
8.	If yes, identify cause/impact on plant								,,,			
9.	Any bypassing since last inspection?								YES		NO	X
10.	Is the standby electrical generator operational?						YES		NO		NA	X
	How often is the standby generator exercised?		6					N	[/ <b>A</b>			
11.	Power transfer switch?	N	I/A		ALAR	M SYS	STEM?		No	ot Test	ed	
12.	When was the cross connection last tested on the pe	otable	supply	7?	÷							
13.	Is the STP alarm system operational?						YES	X	NO		NA	
14.	Is sludge disposed in accordance with an approved SMP YES							NO		NA	X	
	Is septage received by the facility?							YES		NO	X	
1.5	Is septage loading controlled?										NA	
15.	Are records maintained?						YES		NO		NA	

OVERALL APPEARANCE OF FACILITY	GOOD	AVERA	GE X	POOR	
				<del></del>	

COMMENTS:

Operations at this facility have ceased. The treatment system is still in use for unused well water and stormwater. Contract staff check on operations and keep a hand written log of maintenance performed and operational activities.

ACIL	ITY: International Paper	Co F1	anklin								VA0	<del>)004</del>
			1.45, (4)	PLANT	RECORDS							
	W	НІСН О	F THE FOL	LOWING	RECORDS DO	ES THE P	PLANT N	AAINTA	IN?			
	Operational logs for each pro-	ocess un	it				YES	X	NO	-	NA	
	Instrument maintenance and	calibrat	ion				YES	X	NO		NA	
	Mechanical equipment main	tenance					YES	X	NO		NA	
1.	Industrial waste contribution	(munic	ipal facilitie	s) .			YES		NO		NA	X
			WHAT DO	OES THE	OPERATIONAL	LOG CO	NTAIN		•	1		
•	Visual Observations			Flow Me	asurement	X.	Laboratory Results					
2.	Process Adjustments		x	Control C	Calculations		-		Other?			
COMN	MENTS:											
	WHAT DO THE MECHANICAL EQUIPMENT RECORDS CONTAIN?								NA			
	MFG. Instructions		x	As Built Plans/specs				Spare 3	Parts Inve	ntory		
3.	Lube Schedules	2	x	Ot	her?		Е	quipme	nt/parts S	upplier	's	
COMN	MENTS:						,		•	• "		
	WHAT DO IND	JSTRIAL	L WASTE CO	ONTRIBU	TION RECORD	S CONTA	UN? (M	UNICIP	AL)		NA	X
	V	Vaste Ch	aracteristics	S				Imp	act on Pla	ınt		
4.	Locat	ion and	Discharge T	`ypes			Other?					
COMN	MENTS:							***				
	WHICH OF THE FO	LLOWIN	NG RECORI	DS ARE A	T THE PLANT &	& AVAILA	BLE TO	) PERS	ONNEL?		NA	
	Equipment Maintena	ınce Rec	ords	. <b>X</b>		Industri	al Contr	ibutor R	Records		,	
5.	Operational Log	X	Sam	pling/testi	ng Records	X	I	nstrume	entation R	ecords		X
6.	Records not normally availal	ble to pe	rsonnel at th	eir locatio	on:	Oper	ations r	ecords	kept at p	ant lo	cation.	
7.	Were the records reviewed d	uring the	e inspection			•			YES	X	NO	
8.	Are records adequate and the	O&M 1	nanual curre	ent?	•				YES	X	NO	
9.	Are the records maintained f	or the re	quired 3-yea	ar time per	iod				YES	X	NO	
7010	MENTS:								1		<u> </u>	

COMMENTS: The permit was written for the operational mill. No production processes are currently operational.

3.

agency notified:

NO

NA

YES

PR	OBLEMS IDENTIFIED AT LAST INSPECTION:	CORRECTED	NOT CORRECTED
	None		
	SUMMARY		•
INS	PECTION COMMENTS:		
	NOTE: This facility has earned the Extraordinary Environmental En Virginia Environmental Excellence Program (VEEP).	nterprise (E4) ra	ting in the
1.	The stormwater requirements were reviewed. The SP3 was up to date with proper Comprehensive Site Evaluation was conducted 12/11/10. No problems were noted. monitoring was conducted 12/21/10. The quarterly visual sampling is not required facility as per Mark Sauer's email of 11/18/10.	The Monthly site is	spection and BMP
2.	The required river monitoring is being conducted by Universal Labs. The last docu	mented sample rur	was 1/15/11.
3.	The treatment system, leachate pond and outfall were inspected. No problems were	noted.	
4.	The mill processing area has minimal activity and is kept reasonably clean. Stormv treatment system.	vater from this area	is routed to the
5.	Most actual stormwater discharge points were not viewed. However, no problems vinspected.	vere noted in the di	ainage areas
5835 E 5 7 35			
CO	MPLIANCE RECOMMENDATIONS FOR ACTION:		
			-
	,		
		·	
	<u> </u>		

#### DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART II

## Unit Process Evaluation Summary Sheet\*

UNIT PROCESS	APPLICABLE		COMMENTS	
WASTEWATER PUMPING	Х			
FLOW MEASUREMENT	х			
SCREENING	х			
GRIT REMOVAL				
FLOW EQUALIZATION		-		
PONDS/LAGOONS	х			
OIL/WATER SEPARATOR	,			
PRIMARY SEDIMENTATION	Х			,
ACTIVATED SLUDGE AERATION				
EFFLUENT/PLANT OUTFALL	х			

### STANDARD COMMENTS:

- 1. UNIT NEEDS ATTENTION
- 2. ABNORMAL INFLUENT/EFFLUENT
- 3. EVIDENCE OF EQUIPMENT FAILURE
- 4. UNAPPROVED MODIFICATION OR TEMPORARY REPAIR
- 5. EVIDENCE OF PROCESS UPSET

\*REFER TO INDIVIDUAL UNIT PROCESS EVALUATION FORMS

		UNIT PROCESS:		SCREEN	NGS	į				
	•							YES	NO	NA
1.	Number of manual un	its		1						
2.	Number of mechanica	l units		1						
3.	Number manual units	in operation		0						
4.	Number of mechanica	l units in operation		1		3 5 7 7 3 4 5 6				0.00 (See
	Bypass channel provi	ded						Х		
5.	Bypass channel in use								X	
6.	Area adequately vent	lated						х		
7.	Alarm system for equi	pment failure and/or ove	erloads					х		
8.	Proper flow distributio	n between units		- <b>v</b>						Х
9.	How often are units cl	necked and cleaned			1/SH	IFT				
10.	Cycle of operation			STAFF OF	ERATED			g sagu G sagu	,	
11.	Volume of screenings		MINIMAL							
GENE	RAL CONDITION: GOOD FAIR X							OOR		

COMMENTS:

The little material caught in the bar screen is from stormwater. Level alarms sent to guard house. There is also a local hydrogen sulfide alarm.

		UNIT PRO	CESS:		P	UMP STA	ATION		·		<del>,</del>	, <del>-</del>	
	<del>-</del>										YES	NO	NA
1,	Name of station	Main I	Viill / #2 F	ump Sta	tion					-			
2.	Number of pumps?	4/2											
3.	Size:	Variou	ıs										;
4.	Туре:	Variab	ole Rate:	4; Fixed	Rate: 2							57.65	
5.	Automatic alternation p	rovided?							•			-	
FOLLO	OWING EQUIPMENT OPE	RABLE									<del></del>		
6.	All pumps										х		
7.	Ventilation												·X
8.	Control equipment										х		
9.	Sump pump												X
10.	Seal water system								-	****	X.		
RELIA	BILITY CONSIDERATION	S		,									
11.	Classification	ı		II	Х	111					3 B		
12.	Alarm system operable			J							X		
ALAR	M SYSTEM	·											
13.	Type:		Local				Tele	met	tric	Х			Control Control
14.	Conditions monitored	d:	High wa	ater level					•		х		
			High liq	uid level i	n dry wel	I				-			Х
			Main el	ectric pow	er/er						х		
			Auxiliar	y electric	power								Х
			Failure	of pumps	to start						х		
	***		Test fui	nction									Х
•			Other:	100011									Х
15.	Backup for alarm syste	m operation	al?								?	?	?
16.	Alarm signal reported t	o (identify):	G	UARD HO	DUSE							i: 3 3	
	CONTINUOUS OPERA	ABILITY PRO	OVISION	s ·	Gen	erator			Portable Pump				
24.	(1) Day Storage			(2) Source	es of Elec	ctricity		х	Other:		600000 6000000		
25.	Does the station have	a bypass?										X	
29.	How often is the station	n checked?					•		1/SHIFT				
	· ·		·						A 8 8 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
									1				

GENERAL CONDITION:		GOOD	FAIR	х	POOR	
COMMENTS:	NO PROBLEMS	NOTED.				

## FACILITY: International Paper Co. - Franklin

UNIT PROCESS:	
011111100000	SEDIMENTATION
1	

	PRIMARY	х	SECONDARY	TERTIARY			YE	s	NO	NΑ
1.	Number of units			2			COVERS.			
2.	Number units in ope	eration		2						
3.	Proper flow distribut	tion betweer	n units				2	2		
4.	Sludge collection sy	stem workir	ng properly?				*			
5.	Signs of short circui	ting and/or	overloads						Х	
6.	Effluent weirs level						х	۲.		
7.	Effluent weirs clean	,					х			
8.	Scum collection sys	tem working	properly							х
9.	Influent/effluent baff	fle system w	orking properly				х	(		
10.	Chemical Used				Chemical	Addition				х
11.	Effluent characterist	tics			CLEAR					
GENE	RAL CONDITION:		GOOD	FAI	R	х	POOR			

1	0014455470		- 1
-	COMMENTS:	THE SLUDGE COLLECTION SYSTEM HAS BEEN TURNED OFF DUE TO EXTREMELY LOW INFLUENT SOLIDS.	
1		ADDITIONALLY THE SLUDGE PUMPS AND SLUDGE PRESS ARE NO LONGER IN OPERATION.	- 1
		ADDITIONALLY THE SLUDGE PUMPS AND SLUDGE PRESS ARE NO LONGER IN OPERATION.	ŀ

**FACILITY:** International Paper Co. - Franklin

		UNIT PROCESS:						ASB, C & D Ponds									
		L													YES	NO	NA
1.	Type of filte	rs		Aer	ated			Polis	hing			Unaera	ted	х			
2.	Number of	cells			1 EAC	H							1				
3.	Number cel	ls in opera	tion			1	EAC	Н					4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 (8 (8 ) ) 3 (8 (8 ) )			
	Operation o	f system			3.0			- 1									
4.	Ser	ies	х			Parall	lel				-	Other:					
	Color					ji (8. 18.		10 (11 (A) 10 (11 (A)				Light Brow	'n				
5.	Gray Brown Green X Other:																
			į	EVIL	DENCE	E OF T	HE I	FOLLO	WINC	G PROB	LEMS:	•			25 (50 - 50 o	3 8 8	
	Vegetation in lagoon or dikes?												х				
	Rodents burrowing on dikes?												х				
	Sludge bars	?	·												х		
	Excessive for	oam?										-				х	
6.	Floating ma	terial?														х	
7.	If aerated, a	re lagoon	content	ts mi	xed ad	lequate	ely?										х
8.	If aerated, is	aeration	system	opei	rating p	oroperl	у?										х
9.	Odors:		Septic			Eart	hy		1	None	х	Oth	er:				
10.	Fencing inta	ct?													х		
11.	Grass main	tained prop	erly?												х		
12.	Level contro	l valves w	orking p	prop	erly?									, , , , , , , , , , , , , , , , , , ,			х
13.	Effluent disc	harge ele	vation?					Тор		Mic	idle		Bottom	_  x			
14.	Freeboard							>3 FT									
15.	Appearance	of effluen				GC	OOD	х	FA	AIR.		POOR					
	Are monitor	ing wells p	resent?	?											х		
	Are wells ac	lequately p	orotecte	ed fro	m runc	off?									Х		
16.	Are caps on	and secu	red?												х		
GENE	ENERAL CONDITION: GOOD FAIR X											POOR					

COMMENTS:

THE AERATION UNITS ARE NOT IN OPERATION IN THE ASB (AERIATION STABILIZATION BASIN). THE ASB ALSO HAS FLOATING CURTAINS TO SLOW AND CHANNELIZE FLOW. THERE ARE FRAGMITES AND OTHER PLANTS ON THE INTERIOR BANKS OF ALL PONDS. THE STORMWATER PONDS ARE ESSENTIALLY VEGETATED WETLANDS.

		UNIT PROCES:	S:	FLO	W MEASUREMENT						
	INFLUENT	INTERM	EDIATE		EFFLUENT	х	] .		YES	NO	NA
1.	Type of measuring d	evice	PRESSURE	DIFFE	RENTIAL	•	•				
2.	Present reading?		9.6 " Hg / 32	2.8 MGD							
3.	Bypass channel			•	**			· ·		х	
4.	Bypass channel mete	ered?			•						х
	Return flow discharg	ed upstream of the	meter?		,		_				х
5.	Identify:	'								4.5	
6.	Device operating pro	perly?							х		
7.	Date of last calibration	on?	-		1/24/11					3 9 0	
			EVIDENCE	OF THE	FOLLOWING PRO	DBLEM	s				
	Obstruction?				,					х	
8.	Grease?									х	
				1						·	
GENE	RAL CONDITION:	GOO	DD D		FAIR		Х		POOR		
COMN	MENTS:								<del></del> ,	-	

UNIT PROCESS: EFFLUENT/PLANT OUTFALL

								YES	NO	NA
1.	Type of outfall			Sh	ore Based	Submerged	х			
			TYP	E IF SHO	RE BASED:					
2.	Wingwall		Headwall		Rip Rap	Pipe	Х			
3.	Flapper valve pre	esent?		*					-	Х
<b>4</b> .	Erosion of bank a	area?							х	
5.	Effluent plume vis	sible?								Х
	Condition of outfa	all and th	he supporting st	tructure?				500		18 (A) 17 (B)
6.	GOOD		FAIR	х	POOR					
٠	·	FINAL E	FFLUENT, EV	DENCE	OF FOLLOWING	PROBLEMS?		and)		
	Oil sheen?								х	
	Grease?								X	
	Sludge bar?								х	
	Turbid effluent?								х	
	Visible foam?								Х	
7.	Unusual color?								Х	

,		•			
GENERAL CONDITION:	GOOD	FAIR	Х	POOR	

COMMENTS:

The discharge flows through a screening structure, through an "L" shaped pipe to discharge underwater. The discharge is to a short canal prior to the Blackwater River.

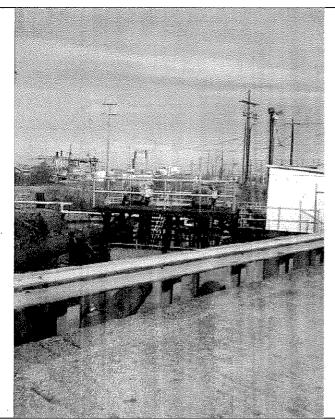


Photo #1. The stormwater pump station from bridge over Washoe Creek. Mill in the background



Photo #2. The main discharge canal between the clarifiers and the Aerated Basin.



Photo #3. "C" Pond looking north from the discharge structure.



Photo #4. "D" Pond looking NE. The gated discharge structure is in the foreground. The pond is covered with duckweed behind the floating boom. The Blackwater River is behind the photographer.



Photo#5. The leachate pond. The building at center rear is the pump house. The landfill is to the left.

Date 1/25/11	John His 11/18/10		12:20 Grado	2 3	1-3 Clarifiers -> Aeration	Behid photogophi	m effluent stradum.	<u>+</u>	Choek, Gant
68 Location 1710004/62 Project/Client Ind'   Paper 9:15-1:40	Sabrawater - John Bunch	Meritanus -	Sanole 001-6	Samuel by Ray Mask	S S S S	Stricture. Rever to	@ C Pow boling N from exploent stradore	Washoe Cle @ Frank (1) Leachate poud	Gar Ith

The second of th

in Walde Ge

ACIL	ITÝ:	L'e	49400	e	<del></del>		<del></del>				VA0
	PLANT OPE	RATION A	ND MAL	NTEN	ANCE					(8) (8) (1) (8) (7) (8)	
1.	Class/number of licensed operators:	I /	n.		ш		IV		Trai	nee	
2.	Hours per day plant manned?		Z#	US.	1						<b></b>
3.	Describe adequacy of staffing		GOOI			AVERA	AGE		PO	OR.	,
4.	Does the plant have an established program for tra	ining persom	nel					YES	سيا	NO	
5.	Describe the adequacy of training		GOOI	)		AVERA	AGE	i	PO	OR ·	
6.	Are preventative maintenance tasks scheduled /	pt sina	-shul	- <i>Ò</i> 6	WW.			YES	,	NO	<i>L</i>
7.	Describe the adequacy of maintenance		GOOI			AVERA	AGE	1	PO	OR	
	Does the plant experience any organic/hydraulic o		YES		NO						
8.	If yes, identify cause/impact on plant					<u></u>					·
9	Any bypassing since last inspection?							YES		NO	
10.	Is the standby electrical generator operational?					YES		NO		NΑ	i/
	How often is the standby generator exercised?										
11.	Power transfer switch?			ALAF	RM SYS	TEM?					
12.	When was the cross connection last tested on the p	otable suppl	y?								
13.	Is the STP alarm system operational?				,	YES		NO		NA	
14.	Is sludge disposed in accordance with an approved SMP YES							NO		NA	
	Is septage received by the facility?							YES		NO	1
نر	Is septage loading controlled?					YES		NO		NA	
15.	Are records maintained?				Γ,	YES		NO		NA	

OVERALL APPEARANCE OF FACILITY	GOOD	AVERAGE	POOR	
		 <del></del>	 	

COMMENTS:	

FACIL	ITY:									VA00
				PLANT RECORDS						
	W	HICH OF T	HE FOLL	OWING RECORDS DOES	THE PI	ANT I	AAINTAI	N?		
	Operational logs for each pro	cess unit	مناي زياد	iten log		YES		NO	NA	
	Instrument maintenance and					YES		NO	NA	1
	Mechanical equipment maint	enance				YES	1	NO	NA	
1.	Industrial waste contribution	(municipal	facilities)	, , , , , , , , , , , , , , , , , , , ,		YES		NO	NA	1
	_	W	HAT DOI	ES THE OPERATIONAL L	OG COI	VTALIN		······································		
	Visual Observations		]	Flow Measurement		·	Labor	atory Resu	lts	
2.	Process Adjustments	-	(	Control Calculations		<u> </u>		Other?		
COMM	ŒNTS:	A	··· <b>!</b>		1,					
	WHAT	DO THE M	ŒCĦANI	CAL EQUIPMENT RECO	RDS CO	NTAIN	?		NA	
	MFG. Instructions				Spare P	arts Inven	tory			
3.	Lube Schedules			E	quipmer	ıt/parts Suj	ppliers			
СОММ	ENTS:		<u>.</u>							
	WHAT DO INDU	ISTRIAL W	ASTE CO	NTRIBUTION RECORDS	CONTAI	IN? (M	UNICIPA	1L)	NA	
	V	aste Chara	cteristics				Impa	act on Plan	nt	-
4.	Locat	ion and Disc	charge Ty	pes				Other?		-
COMM	ENTS:	,	-							
-	WHICH OF THE FO	LLOWING I	RECORD	S ARE AT THE PLANT & 2	AVAILA	BLE TO	) PERSO	NNEL?_	NA	
	Equipment Maintena	nce Record	<b>s</b>		Industria	ıl Cont	ibutor R	ecords		
5.	Operational Log		Samp	ling/testing Records			Instrume	ntation Re	cords	
6.	Records not normally availab									
7.	Were the records reviewed d	uring the in	spection					YES	NO	
8.	Are records adequate and the	O&M man	ual curre	nt?				YES	NO	
9.	Are the records maintained f	or the requi	red 3-year	time period				YES	NO	,
COMN	MENTS:									•

		UN	IIT PROCES	S:	FLO	W MEASUREMENT						
	INFLUENT		INTERM	EDIATE		EFFLUENT		-		YES	NO	NA
1.	Type of measurin	g device		Press	UND	de Renenta		•		i (		
2.	Present reading?			9.6	"H9							
3.	Bypass channel										7	
4.	Bypass channel r	netered?	•			, Little III on						t/
	Return flow disch	arged up	stream of the	meter?					-		<u> </u>	
5.	Identify:			Stomi	ساعتكور					3	46.4	
6.	Device operating	properly	?				·····		<u></u>	V	contracts to Citizen	Carlo San Victor San F
7.	Date of last calibr	ation?		1/20	1/11				-		i badi	
				EVIDENCE	OF THE	FOLLOWING PRO	BLEMS					
	Obstruction?											
8.	Grease? 9	6"/	11.									
0.	-	φ /	719								I.	
GENE.	RAL CONDITION:		GOO	סכ		FAIR			F	POOR		
l												
COMB	MENTS:								<del></del>			
	INFLUENT		INTERM	EDIATE		EFFLUENT			-	YES	NO	NA
1.	Type of measurin	g device										•
2.	Present reading?			<u>.l.,</u>							T	
3.	Bypass channel	<del></del>										
4.	Bypass channel r	netered?					••				<u> </u>	
	Return flow disch	arged up	stream of the	meter?						Escala Vision		
5.	Identify:									88° 4° 1/5 14° 8° 68°	i eg i	
6.	Device operating	properly	?	<u></u>				,				
7.	Date of last calibr	ation?										
				EVIDENCE	OF THE	FOLLOWING PRO	OBLEMS:			T	<del>1</del>	1
	Obstruction?				<del> </del>						-	
8.	Grease?										<u> </u>	<u> </u>
GENE	RAL CONDITION:		GO	DD D		FAIR				200R		
					i				.l		J	
COM	MENTS:					-						

COMMENTS:

	UNI	T PROCESS:	SCREENINGS/COMMINUTION			
	<del></del>		- Carl	YES	NO	NA
1.	Number of manual units				97. N	
2.	Number of mechanical unit	S			ter er i geografi	
3.	Number manual units in op	eration				
4.	Number of mechanical unit	s in operation			2000 4	
	Bypass channel provided					
5.	Bypass channel in use				0	
6.	Area adequately ventilated					
7.	Alarm system for equipmer	rt failure and/or overload	ds	W		
8.	Proper flow distribution bet	ween units			<u> </u>	L
9.	How often are units checke	d and cleaned			a 1656 2 65	2000
10.	Cycle of operation					
11.	Volume of screenings remo	oved				00000 E
GENI	ERAL CONDITION:	GOOD	FAIR	POOR		

local HLS alarm

	וט	VIT PRO	CESS.		P	UMP STA	ATION				
		-							YE\$	NO	NA
1.	Name of station	Ma	w M	, 4	#Z.P	ump St	ta CAGB > CP	( Bu	4 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		-9
2.	Number of pumps?	6			,,,	1	ta CASB > CPO		10 (S)		
3.	Size:								1	3	
4.	Type:	Var	wole	XA	ぶ	red X	٧				
5.	Rated capacity:										<u> </u>
6.	Automatic alternation prov	ided?		·					<u> </u>		
FOLLO	WING EQUIPMENT OPERAE	LE				,,,				,	
13.	All pumps							and the second s	1		
14.	Ventilation					a .					1
15.	Control equipment								/		
16.	Sump pump										i
17.	Seal water system								i i		
RELIA	BILITY CONSIDERATIONS										
18.	Classification	[		ll ll	?		<b>五</b>			and a	
19.	Alarm system operable				<del></del>				-		
ALAR	M SYSTEM										
20.	Туре:		Local				Telemetric				
21.	Conditions monitored:		High wa	ater level	J E	xtra	High		V		
			High liq	uid level i	in dry we	1					i
			Main el	ectric pov	ver				1		
			Auxilian	y electric	power						i
			Failure	of pumps	to start				1/		
			Test fu	nction							
			Other:	<del></del>						1	
22.	Backup for alarm system of	operation	al? Z	Sour	-es (	Jech	Tooley				
23.	Alarm signal reported to (i	dentify):	(	500 M	Shac	k	1		00.000 (00.00 00.000 (00.000)		

Storm - Process area exoss well water 1. 2. 3. 4. 5. 6. 7. 8.

10.

11.

Chemical Used

GENERAL CONDITION:

COMMENTS:

Effluent characteristics

	UN	UIT PROCESS: Clan	SEDIMENTATION			
PRIMARY	1	SECONDARY	TERTIARY	YES	NO	LAVA
Number of units			2		- 1.2	
Number units in op	eration		7			
Proper flow distribu	tion between	en units		1		
Sludge collection s	ystem work	king properly?				1
Signs of short circu	iting and/o	r overloads		i/		
Effluent weirs level				   i/		
Effluent weirs clear	ì			×		
Scum collection sys	stem workir	ng properly				1
Influent/effluent bat	fle system	working properly				

Chemical Addition

POOR

FAIR

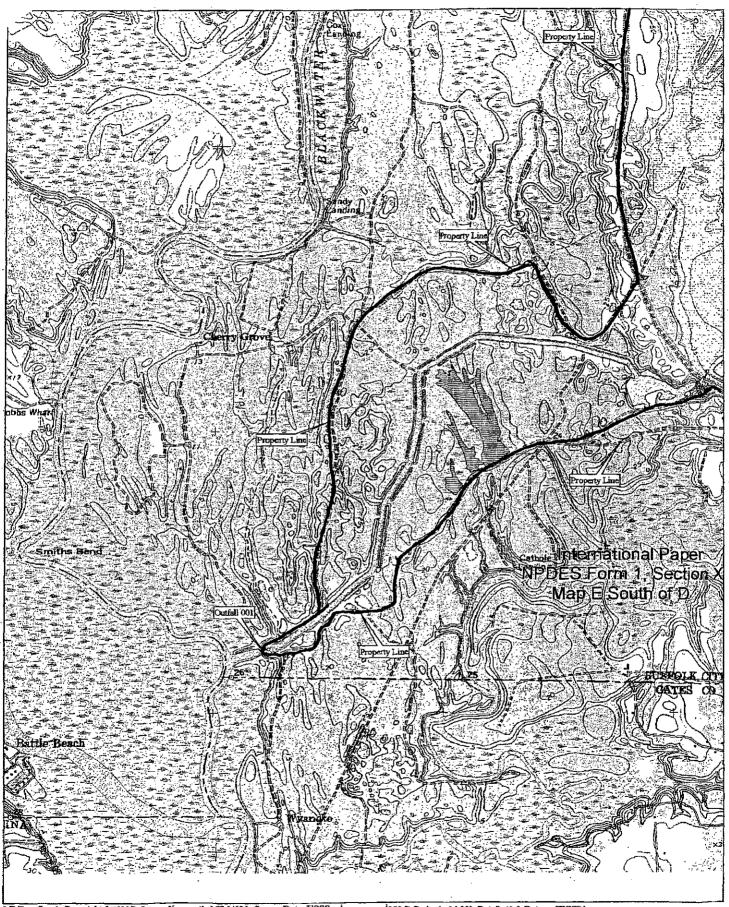
COMMENTS:   X ala	we_	
	<del></del>	

GOOD

		UNIT PROCESS:	SEDIMENTATION				
	PRIMARY	SECONDARY	TERTIARY		YES	NO	NA
1.	Number of units						
2.	Number units in oper	ation				a de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com	
3.	Proper flow distribution	on between units	· · · · · · · · · · · · · · · · · · ·				
4.	Sludge collection sys	tem working property?				<u> </u>	
5.	Signs of short circuit	ng and/or overloads					
6.	Effluent weirs level						.,
7.	Effluent weirs clean						
8.	Scurn collection syste	em working properly					
9.	Influent/effluent bafflo	e system working properly					
10.	Chemical Used		Ch	emical Addition			
11,	Effluent characteristic	cs					
GENE	RAL CONDITION:	GOOD	FAIR		POOR		

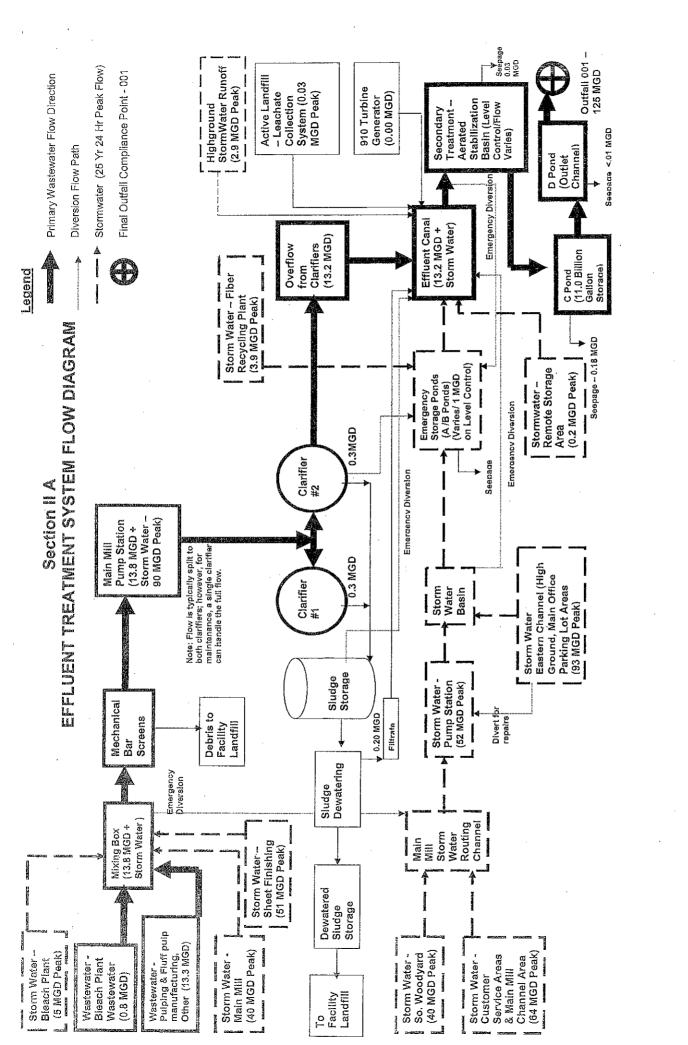
## ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP

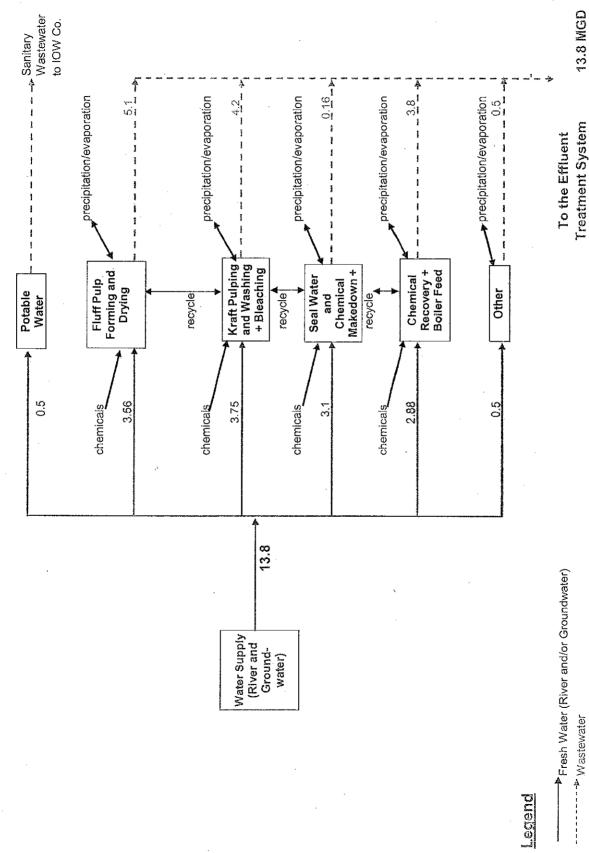


## ATTACHMENT 3

SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE

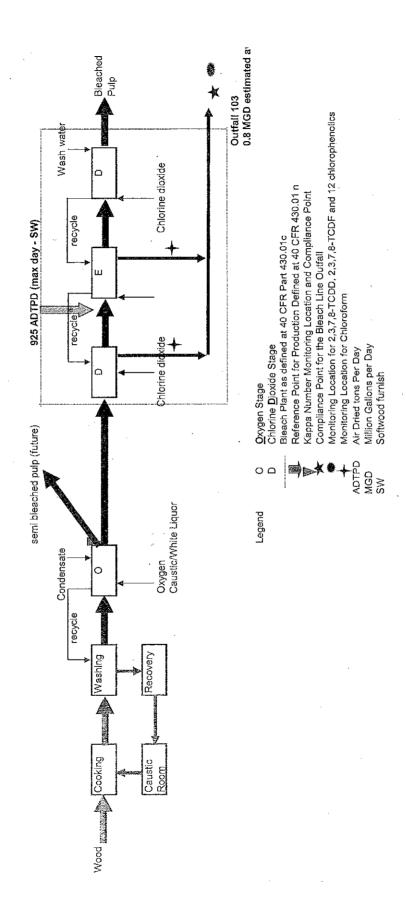


Water Flow Line Drawing Form 2C Section II.A



Flows are in million gallons per day (MGD) Flows are estimated based project/ engineering balances

F Bleach Line Outfall 103 Configuration (VATIP Tier 1 Compliant) Softwood Furnish



### ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

### FORM 2 C - Section II.B INSERT

1. Outfall	2. Operations Contributing Flor	W		3. Treatment	
No.	a. Operation (list)	b. Average Flo	w	a. Description	b. List Codes
		(mgd)			from Table 2C
		(		PRIMARY TREATMENT	
001	Pulp Mill (SIC 2611)	1		Mechanical Bar Screens	1-T
	(Includes woodyard, continuous	·	0.0	inochanical Edit Concerns	
	digesters; chemical and heat			Screened Material to	
	recovery operations; turpentine			Landfill	5-Q
				Landini	5-Q
	processing; power and steam			O1 :0: 4:	
	generation, pulp bleaching and fluff pulp		ř	Clarification	1-U
	forming and drying			Clarifier #1 - 230 ft diameter	
	,		l	2 - 800 gpm sludge pumps	
103	F Bleach Line (internal outfall)	0.80		Clarifier #2 - 205 ft diameter	
				2 - 800 gpm sludge pumps	
				Sludge Dewatering	5-C & 5-L
				2 - 2.0 Meter Belt Filter Presses	
				w/ gravity thickeners	
001	Other			90 tons/day capacity each	
	3	•		Sludge Feed Tank (62,000 gals)	
	·			3 Centrifugal Sludge Feed Pumps	
	Sawmill Activities	0.1		Solids to Landfill	5-Q
001	Stormwater Runoff (25/24Hr Peak)	<u> </u>		SECONDARY TREATMENT	
001	Bleach Plant	F		Overflow from the clarifiers,	
	Main Mill			stormwater runoff & landfill	
	Cust. Svc. & Main Mill Channel Areas (7)			leachate, receive secondary	·
	East Channel/High Gr/Main Off. Areas (7)			treatment as follows:	
			0.00		
	South Woodyard (7)				2 B
	Sheet Finishing			Aerated Stabilization Basin	3 - B
	Highground Pond (7)			HRT = 7 days	-
	Fiber Recycling Plant Area (7)			Total Aeration HP =1575 (available)	
	Remote Storage Pile (7)		).17	Two Baffle Curtains	
001	Misc				
	910 Turbine Generator (7)	C	).01	Holding Pond ( C Pond)	3-G
			l	11 Billion Gallon Class II Dam	*
	Active Landfill - Leachate (7)	(	).03	for effluent storage from April - Oct	
Notes:					
1) Flows indica	ated are based on project engineering estimates			Discharge Channel ( D Pond)	None
2) Stormwater	flows are peak values based on a report from Davis and			Conveyance channel for effluent	
Floyd, March 1	1997 and are based on a 25 Yr/24 hr rainfall event.			releases (Nov - Mar)	
3) Stormwater	flows are accounted for in the average				
	fluent Treatment System; the peak number indicated is			Outfall 001	4-A
	is not included in this average number.				
	Il is not part of the facility proper				
•	details, refer to the flow diagram.	•			
•	bw provided is an estimated nominal flow				
o, nodoridio in	(Solid Waste Facility Permit No 504 Part B Application)				-
7) Flow bypes		or dataile			
⊃ illow bypas	ses primary treatment. See Treatment System Flow Diagram fo	n detaile	ŝ	· .	1

### Form 2C - Section II.B Internal Outfall Information

The state of the state of the	Manager con relations and the Spales which be made	A Company of the Comp		Unbleach Entering BI	• •	
Outfall Number	Bleach Line	Bleaching Sequence	Fiber Furnish	Maximum Daily Production (ADTPD)	Long-term Avg Production (ADTPD)	Long-term Avg Flow (MGD)
103	F ·	ODED ODED (w/ semi)	SW SW	1000 TBD	925 TBD	0.8

ADTPD-

Air Dried Tons per Day

SW

Softwood furnish

Semi

Semi-bleached pulp comes off the O2 stage without entering the bleach plant

Flows are project estimates

Production rate as defined at 40 CFR 430.01n

TBD

Future fluff pulp product to be determined at a later date

### Form 2F, Item IV.B Narrative Description of Significant Materials Form 2F, Item IV.C Description of Structural and Nonstructural Control Measures

Outfall 002 discharges into the Blackwater River at the north end of the millsite. It drains the North rail yard area. Tank cars containing chemicals used in the fluff pulp process are temporarily stored on these tracks until needed. Tank car unloading of pulping liquors, primarily black liquor and turpentine, occurs on a spur just south of the main tracks in the area designated for black liquor loading and unloading. Curbing around the loading and unloading area is present to prevent the possible release of liquors should an accidental spill or release occur.

Outfall 006 discharges into Washole Creek just west of the rail bridge at the south end of the facility. The drainage area is predominantly composed of unpaved surfaces and railroad bed. Tank cars containing chemicals used in the fluff pulp process are temporarily stored on these tracks until needed. The outfall pipe at 006 contains a valve that can be closed in the event of a spill. The valve operation is tested monthly.

<u>Outfall 007 discharges</u> into Washole Creek upstream of 006. The drainage area is unpaved surfaces and railroad bed. No chemical tank cars are stored here. The outfall pipe at 007 contains a valve that can be closed in the event of a spill. The valve operation is tested monthly.

Outfalls 008, 009, and 011 discharge into unnamed tributaries to Kingsale Swamp. They drain areas outside the dike surrounding the landfill as well as the capped portions of the landfill. Stormwater draining to these outfalls does not contact waste material sent to the landfill. Water that contacts the landfill waste is segregated by dikes and berms and drains to a leachate collection system from which it is pumped to the industrial effluent system for ultimate discharge via outfall 001. Stormwater from outfalls 008 and 011 is directed through sedimentation basins prior to discharge.

Outfalls 012 and 013 discharge into storm ditches adjacent to county roads which eventually drain into Washole Creek. They drain a series of gravel lots used to park covered trailers which transport our finished product. There is no loading or unloading of product or material in these lots.

Outfall 014 drains gravel lots used as temporary laydown areas for construction materials (pipes, valves, etc.) and used to park covered trailers which transport our finished product.

<u>Pollutants stored in rail cars in the drainage areas of outfalls 002 and 006</u>: Sulfuric acid, pulping liquors (black, green and white), sodium hydrosulfide, sodium hydroxide and sodium chlorate. Of these, only sulfuric acid is a Section 313 Water Priority Chemical.

Nonstructural Control Measures: All outfalls are subject to monthly visual inspections, Stormwater Pollution Prevention Plan, SPCC Plan, Facility Emergency Response Plan, and employee training. Outfalls 008, 009 and 011 are further protected by weekly inspections of the landfill and its associated leachate collection system.

ų i s							
	Outfall 002 006 007 008 009 011 012 013 014	Latitude 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40	0' 15" 0' 15" 0' 15" 0' 15" 1' 00" 0' 45" 0' 45"	Longit 76 76 76 76 76 76 76 76 76	55° 54° 52° 52° 51° 54° 54° 54° 54°	00" 45" 45" 30" 30" 45" 15" 30" 00"	Receiving Water Blackwater River Washole Creek Washole Creek Kingsale Swamp Kingsale Swamp Kingsale Swamp Washole Creek Washole Creek Washole Creek

### ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

### TABLE II - INDUSTRIAL MAJOR EFFLUENT LIMITATIONS

OUTFALL# \_\_001

Outfall Description: Process wastewater

SIC CODE: 2611

(X) Final Limits Effective Dates - From: Modification To: Expiration

(X) Final Limits Effective D	ates - From: N	iodification 10: F	expiration				
	BASIS FOR	MULTIPLIER OR	DISCH	ARGE LIMITA	TIONS	MONITO REQUIREM	
PARAMETER & UNITS	LIMITS	PRODUCTION	MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)[b]	3		NL	NA	NL	1/D	MEAS
Flow, Seasonal (MG)[b]	2		NA NA	NA	14000	1/M	MEAS
pH (S.U.)[d]	2		NA	6.0	9.0	1/W	GRAB
TSS (mg/l)[c][d]	3		136	NA	272	1/W	GRAB
TSS**6 (lb/sea)	2		NA	NA	2.88	1/ <b>M</b>	GRAB
BOD5 (mg/l)[c][d]	3		66	NA	132	1/W	GRAB
BOD5**6 (lb/sea)	2		NA	NA	4.4	1/ <b>M</b>	GRAB
COD (mg/l)[c]	3		NL	ÑΑ	NL	1/ <b>M</b>	GRAB
Color, PCU	3		NL	NA	NL	1/ <b>W</b>	GRAB
Nitrogen, Total as N (mg/l)	3		NL	NA	NL	1/M	GRAB
Phosphorus, Total as P (mg/l)	2		2	NA	NL	1/W	GRAB
Phosphorus, Total**6 (lb/sea)	.3		- NA	, NA	0.2	1/M	GRAB
Ammonia, as N (mg/l)[c]	2		2.15	NA	3.19	1/W	GRAB
Ammonia, as N**6 (lb/sea)[c]	2		0.22	NA	0.32	1/M	GRAB
2,3,7,8-TCDD (pg/l)[a][c]	4	-	0.12	ÑA	0.12	1/SEA	GRAB
2,3,7,8-TCDD**-5 (lb/sea)[a][c]	4		NA	NA	1.1	1/SEA	GRAB
2,3,7,8-TCDF (pg/l)[a][c]	3		NA	NA	NL	1/SEA	GRAB
2,3,7,8-TCDF**-5 (lb/sea)[a][c]	3		NA	NA	NL	1/SEA	GRAB
AOX (mg/l)[c][d]	1		133	NA	280	1/ <b>M</b>	GRAB
AOX (lb/season)[c]	1		NL	NA	723,000	1/ <b>M</b>	GRAB

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY;

1/Season = November 1 - March 31.

### The bases for the limitations codes are:

- 1. Federal Effluent Guidelines
- 2. Water Quality Standards (9 VAC 25-260 et. seq.)
- 3. Best Professional Judgment
- 4. North Carolina Water Quality Standards (NCAC, Ch.2, Subch. 2Β, ∋.0208)

<sup>[</sup>a] See Special Condition LB.11 for additional information concerning sampling methodology.

<sup>[</sup>b] Flow rate shall be measured by daily recording of the settings on properly calibrated discharge gates.

<sup>[</sup>c] See Special Conditions LB.6 and LB.7 for additional information concerning Quantification Levels (QLs) and compliance reporting.

<sup>[</sup>d] See Sepcial Condition I.B.9 for monitoring frequency requirements

### TABLE II - INDUSTRIAL MAJOR EFFLUENT LIMITATIONS

OUTFALL# 103

Outfall Description: F bleach plant effluent

SIC CODE: <u>2611</u>

(X) Final Limits Effective Dates - Modification To: Expiration

	BASIS FOR		DISCHA	ARGE LIMITA	TIONS	MONITO REQUIREM	
PARAMETER & UNITS	LIMITS	OR PRODUCTION	MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)[b]	3	,	NL	NA	NL	1/M	MEAS
2,3,7,8-TCDD (pg/l)[c]	ŀ		NA	NA	ND	1/Year	GRAB
2,3,7,8-TCDF (pg/l)[c]	1	.,	NA	NA	31.9	1/Year	GRAB
Chloroform (ug/l)[c]	3		NL	NA	NL	1/Year	GRAB
Chloroform (g/day)[c]	1		3650	NA	6100	1/Year	GRAB
Trichlorosyringol (ug/l)[c]	1		NA	NA	ND.	1/Year	GRAB
3,4,5-Trichlorocatechol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
3,4,6-Trichlorocatechol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
3,4,5-Trichloroguaiacol (ug/l)[c]	1		NA	NA	ND .	1/Year	GRAB
3,4,6-Trichloroguaiacol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
4,5,6-Trichloroguaiacol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
2,4,5-Trichlorophenol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
2,4,6-Trichlorophenol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
Tetrachlorocatechol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
Tetrachloroguaiacol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
2,3,4,6-Tetrachlorophenol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
Pentachlorophenol (ug/l)[c]	1		NA	NA	ND	1/Year	GRAB
Kappa Annual Average-Softwood [d]	1		20	NA	NA	1/M	GRAB
Kappa Monthly Average[d]	3		NL	NA	NA	1/M	GRAB

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = January 1 - December 31.

[d] See Special Condition I.B.13 for additional information concerning Kappa Number measurement and reporting.

The bases for the limitations codes are:

- 1. Federal Effluent Guidelines
- 2. Water Quality Standards (9 VAC 25-260 et. seq.)
- 3. Best Professional Judgment

<sup>[</sup>a] See Special Condition I.B.12 for additional information concerning sampling methodology.

<sup>[</sup>b] Flow rate shall be determined by measurement devices when available, and in the absence of such devices, by flow balances around and within the bleach plant sewer. All information used to determine flow rates shall be retained in accordance with Part II.B.

<sup>[</sup>c] See Special Conditions I.B.6 and I.B.7 for additional information concerning Quantification Levels (QLs) and compliance reporting.

### TABLE II - INDUSTRIAL (MAJOR/MINOR) EFFLUENT LIMITATIONS

OUTFALL# 010 and 015

Outfall Description: untreated fresh groundwater resulting from periodic flushing of the water supply line

SIC CODE: <u>2611</u>

(X) Final Limits Effective Dates - From: Modification To: Expiration DISCHARGE LIMITATIONS MONITORING REQUIREMENTS **BASIS** MULTIPLIER OR PARAMETER & UNITS **FOR PRODUCTION** MINIMUM | MAXIMUM | FREQUENC SAMPLE MONTHLY LIMITS **AVERAGE** Y TYPE NO MONITORING REQUIRED 3

THESS OUTFALLS SHALL CONTAIN UNTREATED FRESH GROUNDWATER WHERE NO MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER OR STORMWATER FROM THESE OUTFALLS.

1. Federal Effluent Guidelines

2. Water Quality Standards (9 VAC 25-260 et. seq.)

3. Best Professional Judgment

### STORMWATER

### TABLE II - STORMWATER EFFLUENT LIMITATIONS

### OUTFALL # 002, 006, 007, 008, 009, 011, 012, 013, 014

Outfall Description: 002 - storm water only from North rail yard area to Blackwater River; 006, 007 - storm water only from south end of facility to Washole Creek; 008, 009, 011 - storm water only from natural areas outside of landfill dike to Kingsale Swamp; 012, 013, 014 - storm water only from trailer parking area(s) (012 and 013) and from gravel lots for construction material and trailer storage (014) to Washole Creek

### SIC CODE: 2611

THESE OUTFALLS SHALL CONTAIN STORMWATER RUNOFF ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED, INCLUDING VISUAL MONITORING. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. THE PERMITTEE SHALL IMPLEMENT PROPER STRUCTURAL AND/OR NON-STRUCTURAL BMP'S TO CONTROL POLLUTANTS FROM THESE OUTFALLS. SEE PART LD.

- (1) Timber Products
- (2) Paper & Allied Products
- (3) Chemical & Allied Products
- (4) Asphalt Paving/Roofing
  Matls. & Lubricant
- (5) Glass, Clay, Cement, Concrete & Gypsum Products
- (6) Primary Metals
- (7) Metal Mining (Ore Mining & Dressing
- (8) Coal Mines & Coal Mining Related
- (9) Oil & Gas Extraction & Petroleum Refineries
- (10) Hazardous Waste Treatment, Storage, Disposal
- (11) Landfills, Land
  Application Sites & Open
  Dumps

- (12) Automobile Salvage Yards
- (13) Scrap/Waste Recycling
- (14) Steam Electric Power
  Generating, Inc. Coal
  Handling Areas
- (15) Motor Freight, Passenger,
  Rail, U.S. Postal
  Transportation & Petroleum
  Bulk Oil Stations and
  Terminals
- (16) Water Transportation With Maintenance and/or Equipment Cleaning
- (17) Ship/Boat Building or Repairing
- (18) Vehicle Maintenance,
  Equipment Cleaning or
  Deicing Areas At Air
  Transportation Facilities
- (19) Treatment Works

- (20) Food & Kindred Products
- (21) Textile Mills, Apparel & Other Fabric Products Mfg.
- (22) Wood & Metal Furniture and Fixture Mfg.
- (23) Printing & Publishing
- (24) Rubber, Miscellaneous Plastic Products & Miscellaneous Mfg.
- (25) Leather Tanning & Finishing
- (26) Fabricated Metal Products
- (27) Transportation Equipment, Industrial or Commercial Machinery Mfg.
- (28) Electronic & Electrical
  Equipment and Components,
  Photographic & Optical
  Goods Mfg.
- (29) Nonclassified Facilities

### ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING RATIONALE/SUITABLE DATA/
ANTIDEGRADATION/ANTIBACKSLIDING

### VPDES PERMIT PROGRAM

### EFFLUENT LIMITATIONS AND MONITORING RATIONALE

The facility is subject to the federal Pulp, Paper and Paperboard Point Source Category effluent limitations guidelines (ELG) regulations at 40 CFR Part 430, General Provisions, and 40 CFR Part 430 Subpart B, Bleached Papergrade Kraft and Soda Subcategory, in addition to applicable Virginia water laws and regulations. The federal regulations affect outfall 001 and one internal outfall, 103. A copy of these applicable federal regulations is provided in this Attachment.

### Internal Outfalls

### Outfall 103 (F Bleach Line)

The applicant has enrolled its F bleach line in the VATIP at the Tier I level and has qualified as Advanced ECF (Elemental Chlorine-Free). Bleach plant effluent from the F Bleach Line is regulated under 40 CFR 430 and must meet Best Available Technology (BAT) effluent limitations imposed by 40 CFR 430, particularly 430.24(b) (VATIP) and 430.02 (monitoring requirements), at the point where the wastewater leaves the bleach plant. The plant has achieved compliance with the requirements, and the limits were initially placed in the permit effective January 19, 2000. The federal BAT minimum monitoring frequency requirements under 40 CFR 430 are no longer applicable, as 40 CFR 430.02(c) for plants enrolled in the VATIP specifies that monitoring at the specified frequencies shall continue for a duration of five years from the date the permit first included applicable limitations from subpart B. The permittee had asked that monitoring for those parameters addressed by 430.02 be discontinued altogether; however, 40 CFR 122.44(i) requires at least annual monitoring to determine compliance with the Federal ELG's for those parameters addressed by the ELG which contain limitations. Therefore, monitoring cannot be discontinued altogether. Monitoring for the applicable parameters was reduced effective at the issuance of the permit, to the maximum extent allowable under 122.44(i). The sample type will be a grab sample. It is a staff BPJ decision that for facilities enrolled in the VATIP program that have demonstrated five years of compliance, a grab sample is sufficient to determine continued compliance with the ELG limits. Based on the list of parameters addressed in 40 CFR 430.02(c), Kappa number is not included in the list of parameters where monitoring is reduced after five years.

### Rationale for Effluent Limitations

Flow: The monitoring frequency is once per month and the Daily Maximum and Monthly Average effluent limitations are NL, based on BPJ. Flow balances are routinely used at the bleach line to control the bleaching process and are considered to be sufficiently accurate for effluent monitoring purposes, if direct measurements are not available. Therefore, flow rate shall be determined by measurement devices when available, and in the absence of such devices, by flow balances around and within the bleach plant sewer. All information used to determine flow rates shall be retained in accordance with Part II.B to allow later on-site inspection of flow measurement records. The measurement of flow is necessary to evaluate the potential impact of the discharge on receiving waters, including but not limited to the calculation of pollutant mass from concentration data, as well as to verify that federal mass-based ELGs have been appropriately implemented through conversion to concentration-based effluent limitations for this source.

TCDD, TCDF, chloroform, and the 12 chlorinated phenolic pollutants: Limitations are being established based on the federal ELGs, as follows. Because the F bleach line will employ Advanced ECF bleaching technology to achieve Tier I limitations, federal regulations at 40 CFR 430.02(c), footnote (f) allow suspension of monitoring for these pollutants after one year of monitoring as an incentive for enrolling in the VATIP. However, based on the minimum monitoring required under 40 CFR 122.44(i)(2), monitoring for these pollutants will be continued at a once per year frequency. Effluent limitations are being maintained at the same numerical values as for the prior interim monitoring period to ensure that the F bleach line continues to meet the baseline BAT level of performance, and are restated below:

Parameter	Daily Maximum	Monthly Average	Quantification Level (QL)
2,3,7,8-TCDD 2,3,7,8-TCDF Trichlorosyringol 3,4,5-Trichlorocatechol 3,4,6-Trichlorocatechol 3,4,5-Trichloroguaiacol 3,4,6-Trichloroguaiacol 4,5,6-Trichloroguaiacol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Tetrachlorocatechol Tetrachloroguaiacol 2,3,4,6-Tetrachlorophenol Pentachlorophenol Chloroform, g/d	ND 3650	6100 NĽ	10 pg/l** 10 pg/l 2.5 ug/l 5.0 ug/l 5.0 ug/l 2.5 ug/l 2.5 ug/l 2.5 ug/l 2.5 ug/l 5.0 ug/l
Chloroform, ug/l	NL	ИŢ	•

<sup>\*</sup>ND = Non-detectable at the Quantification Level specified. Detection at the Quantification Level shall constitute an exceedance of the effluent limitation.

AOX: The federal ELG for AOX discharged from the F bleach line applies to the facility's combined final effluent at Outfall 001 and is based on the AOX ELGs for all bleach lines. See Outfall 001 below for determination of AOX effluent limitations.

Kappa Number: Limitations are established based on the federal ELGs, as follows. The Kappa Annual Average-Softwood limitation of 20 S.U. is continued, based on the federal ELGs. The Kappa Annual Average-Hardwood is removed form the permit during the 2012 modification because the permittee has stated that they will not be doing hardwood at the repurposed mill, only softwood. Based on BPJ, the Kappa Annual Average effluent limitations are being expressed as a 12-month rolling average, and the monitoring frequency is monthly, to allow monthly tracking of the facility's annual average Kappa Number. Additionally, based on BPJ, the Kappa Monthly Average effluent limitation of NL is continued to allow tracking of the individual monthly Kappa Number values that comprise the 12-month rolling average.

<sup>\*\*</sup>pg/l = picograms per liter

### Final Effluent Outfalls

### Outfall 001

Process wastewater is stored in C pond and will be discharged via "D" pond during discharge seasons. Process wastewater will be generated from one internal bleach line at the plant as part of the repurposing of the plant. Limits will be the same as the previous permit and will be based on processes and flows that are similar to past operations at the plant. Specific changes in internal processes and bleachline specific production flows will be addressed at the internal outfall for the operational bleach line.

The Blackwater River at the location of Outfall 001 is identified as a Tier 1 water and is listed on the 2004 305(b)/303(d) Category 5 TMDL list based on non-attainment of the dissolved oxygen standard and mercury in fish tissue (see Attachment 10). Because this permit limits routine seasonal discharges from outfall 001 to the months of November through March inclusive (see Special Condition I.B.16), all computations involving stream flow data will be limited to this discharge season. The receiving stream flow statistics are as follows:

Blackwater	River	
1Q10	0.22 mgd	(November-March)
7Q10	1.36 mgd	(November-March)
30Q5	29.3 mgd	(November-March)
Mean Annua	1 702.2 mgd	(November-March at the VA-NC state line)
Flow		

Flow: The measurement of flow is necessary to evaluate the potential impact of the discharge on receiving waters, including but not limited to the calculation of pollutant mass from concentration data, the consideration of mixing zone aspects and Instream Waste Concentration, evaluation of potential acute and chronic toxicity effects, and evaluation of wastewater handling and/or treatment system capacities. The effluent limitation for flow rate in MGD is established as NL Daily Minimum, NL Monthly Average and NL Daily Maximum, and the monitoring frequency is once per day, based on BPJ. The flow rate shall be accurately measured by daily recording of the settings on properly calibrated discharge gates and shall not be estimated. The effluent limitation for cumulative flow is established at 14 billion gallons (14,000 MG) per discharge season, based on the state Water Quality Management Plan, and the monitoring frequency is monthly, based on BPJ.

COD: The Water Quality Standards at 9 VAC 25-260-20 prohibit the presence of substances in amounts which interfere with designated uses and authorize the control of toxic substances or substances which may interfere with designated uses. EPA has indicated that it intends to promulgate COD limitations for 40 CFR 430 Subpart B mills (which would include this facility) in a later rulemaking. The 2004 edition of the 40 CFR has reserved the limits for COD at this time. COD is a broad measure of organic content, which includes toxic organic materials that are not readily biodegraded and, hence, are not generally measured by the BOD5 test. Therefore, the Daily Maximum and Monthly Average effluent limitations for COD are NL, and the monitoring frequency is once per month, based on BPJ.

BOD5: The Water Quality Standards at 9 VAC 25-260-20 prohibit the presence of substances in amounts which interfere with designated uses and authorize the control of substances which may interfere with designated uses. The federal ELGs at 40 CFR 430 Subpart B (Bleached Papergrade Kraft) establish mass-based best practicable control technology (BPT) limitations for BOD5 based on facility product types and quantities. For non-continuous dischargers, the ELGs are stated as an

annual average mass-based limitation. The monitoring frequency is not specified. The applicable state Water Quality Management (WQM) Plan (see Attachment 9: Outfall 001 information) limits BOD5 to a maximum of 4.4 million pounds per year. Based on BPJ, the annual average BOD5 limitation is being expressed as a monthly average because the facility accumulates its daily discharge in a holding pond and does not discharge for an entire year. The Monthly Average BOD5 limitation is being set at 66 mg/l, based on the federal ELGs (see table below). The Daily Maximum BOD5 limitation is being set at 132 mg/l, which is equal to twice the monthly average, based on BPJ, taking into account typical variability experienced by industrial wastewater treatment systems. The monitoring frequency is once per week, based on BPJ, because the facility's 11-billion gallon storage pond (C Pond) significantly dampens potential daily effluent variability. Additionally the discharge season cumulative maximum BOD5 limitation is being set at 4.4 million pounds, based on the Virginia WQM Plan, with a monitoring frequency of once per month.

### Monthly Average BOD5

	BOD5 Limita	ntion based on	BPT ELGs at	40 CFR _430	
Product Type	ELG (1b/1000 lb)	Production Rate (Tons/day)	Annual BOD5 Limitation (lb/yr)	Annual Final Effluent Volume (million gal)	BOD5 Limitation (mg/l)
Market Pulp	4.52	0	0 .	NA	0
Paperboard	3.99 (.430.22)	350	1,019,445	11,289	10.8
Pulp & Fine Papers	3.09 (.430.22)	2650-350= 2300	5,188,110	11,289 9571,43	55.1
			To	tal BPT Limit	65.9

TSS: The Water Quality Standards at 9 VAC 25-260-20 prohibit the presence of substances in amounts which interfere with designated uses and authorize the control of substances which may interfere with designated uses. The federal ELGs at 40 CFR 430 Subpart B (Bleached Papergrade Kraft) establish mass-based best practicable control technology (BPT) limitations for TSS based on facility product types and quantities. For non-continuous dischargers, the ELGs are stated as an annual average mass-based limitation. The monitoring frequency is not specified. The applicable state Water Quality Management (WQM) Plan (see Attachment 9: Outfall 001 information) limits TSS to a maximum of 2.88 million pounds per year. BPJ, the annual average TSS limitation is being expressed as a monthly average because the facility accumulates its daily discharge in a holding pond and does not discharge for an entire year. The Monthly Average TSS limitation is being set at 136 mg/l, based on the federal ELGs (see table below). The Daily Maximum TSS limitation is being set at 272 mg/l, which is equal to twice the monthly average, based on BPJ, taking into account typical variability experienced by industrial wastewater treatment systems. The monitoring frequency is once per week, based on BPJ, because the facility's 11-billion gallon storage pond (C Pond) significantly dampens potential daily effluent variability. Additionally the discharge season cumulative maximum TSS limitation is being set at 2.88 million pounds, based on the Virginia WOM Plan, with a monitoring frequency of once per month.

	TSS Limita	tion based on	BPT ELGs at	40 CFR .430	
Product Type	ELG (lb/1000 lb)	Production Rate (Tons/day)	Annual TSS Limitation (lb/yr)	Annual Final Effluent Volume (million gal)	TSS Limitation (mg/l)
Market Pulp	9.01	0	0	, NA	0 .
Paperboard	7.09 (.430.22)	350 (see Att. 10, 7/10/99 E- mail)	1,811,495	11,289 (see Form 2C, Part II.C)	19.2
Pulp & Fine Papers	6.54 (.430.22)	2650-350= 2300 (see Form 2C, Part III)	10,980,660	11,289	116.6
			To	otal BPT Limit	135.8

Color: The Water Quality Standards at 9 VAC 25-260-20 prohibit the presence of substances in amounts which interfere with designated uses and authorize the control of substances that produce color. Neither the Virginia Water Quality Standards nor the applicable federal ELGs at 40 CFR .430 contain numerical limitations or monitoring frequencies for color. Therefore, based on BPJ, the Monthly Average and Daily Maximum limitations for color are established as NL, and the monitoring frequency is weekly.

pH: The effluent pH is limited to 6.0-9.0, based on applicable Water Quality Standards. The monitoring frequency is weekly, based on BPJ. Measurement of effluent pH is necessary to confirm proper treatment, characterize the discharge and adequately evaluate its potential impact on receiving waters. The Water Quality Standards at 9 VAC 25-260-50 limit pH in surface waters to the range of 6.0-9.0. The federal ELGs at 40 CFR 430 limit pH to the range 5.0-9.0 at all times, and the monitoring frequency is not specified.

Total Nitrogen: The Daily Maximum and Monthly Average NL monitoring requirements for Total Nitrogen in the previous permit are being continued, the monitoring frequency is being retained at monthly, based on BPJ, for the following reasons: (1) there is no water quality criterion for total nitrogen in waters other than Chesapeake Bay tributaries; (2) monitoring results during the previous permit term indicate only low levels of total nitrogen; and (3) the permit will continue to limit ammonia-nitrogen, for which a water quality criterion does exist.

Total Phosphorus: The Blackwater River is identified at 9 VAC 25-260-470 as a Nutrient Enriched Water. There is no freshwater water quality criterion for phosphorus. The Policy for Nutrient Enriched Waters at 9 VAC 25-40-30(A) requires a monthly average total phosphorus effluent limitation of 2 mg/l. Based on BPJ, the Daily Maximum limitation is NL to allow monitoring of peak measured values. The weekly monitoring frequency in the previous permit is being retained, based on BPJ. Additionally, based on BPJ, a seasonal maximum limitation of 200,000 pounds is being retained; this was previously calculated based on a seasonal discharge flow of 11,289 million gallons during the last permit reissuance. In order to

flow of 11,289 million gallons during the last permit reissuance. In order to maintain nutrient loadings to nutrient enriched receiving streams, the limit will not be recalculated based on recent flows.

$$(2\frac{mg}{l})(11,289)(8.34) = 200,000lbs$$

Ammonia-Nitrogen: All references to ammonia in this section refer to ammonia as N. The Blackwater River at Outfall 001 is identified as a Nutrient Enriched Water. The relevant receiving stream water quality statistics are as follows:

Hardness 48.1 mg/l (90th %ile) pH 7.00 SU (90th %ile) Temp 25.13  $\square$ C (90th %ile)

This permit specifically allows the actual Instream Waste Concentration (IWC) to exceed 50% (see Special Condition I.B.18.b). Therefore, by definition the stream is considered to be effluent dominated.

### Determination of Acute WLA (WLAa)

For effluent-dominated streams, the steady state complete mix equation is applied

$$WLAa(mg/l) = \frac{Co(Qe + Qs) - (Cs)(Qs)}{Qe}$$

to determine WLAa, using one-half the 1010 for Qs (=0.11):

where: WLAa = acute wasteload allocation

Qs = critical stream flow = (0.5)1Q10 = 0.11 mgd

Qe = maximum 30-day average effluent flow = 210.3 mgd

Co = in-stream acute ammonia criterion = 23.1 mg/l (see Attachment 9)

Cs = stream background ammonia concentration = 0.09 mg/l (see

Attachment 9: STORET data)

$$WLAa(mg/l) = \frac{23.1(210.3 + 0.11) - (0.09)(0.11)}{210.3} = 23.11mg/l$$

### Thus:

### Determination of Chronic WLA (WLAc)

For effluent-dominated streams, the WLAc is calculated by the above steady state complete mix method using the chronic ammonia criterion of 2.46~mg/l and one-half the 7Q10 for Qs (=0.68 mgd):

$$WLAc(mg/l) = \frac{2.46(210.3 + 0.68) - (0.09)(0.68)}{210.3} = 2.47 mg/l$$

The previous limits are being retained, as follows: Monthly Average 2.15 mg/l and Daily Maximum 3.19 mg/l, with the monitoring frequency retained at once per week; and Seasonal Monthly Average 220,000 pounds and Seasonal Maximum 320,000 pounds, with a monitoring frequency of once per month, based on BPJ.

Dioxin (2,3,7,8-TCDD): The Virginia water quality standard for dioxin is 1.2 parts per quadrillion (ppq) for the protection of human health, which equals 1.2 picograms per liter (pg/l) (see 9 VAC 25-260-150). The North Carolina human health standard is 0.000014 nanograms per liter, or stated for comparison purposes, 0.014 pg/l. Thus, the North Carolina standard is more restrictive. Because Outfall 001 discharges within one stream mile of the Virginia-North Carolina state line, the North Carolina standard and stream flow value will be used to derive the permit limitations.

### Determination of Human Health WLA (WLAh)

WLAh is calculated by the steady state complete mix method using the North Carolina dioxin standard of 0.014 pg/l and the mean annual Chowan River flow for Qs (=1537 mgd) when evaluating carcinogenic materials. Because the North Carolina standard is a □never-to-be-exceeded□ standard, the maximum effluent flow rate of 500 mgd indicated by the applicant will be used for Qe. No

$$WLAh(pg/l) = \frac{0.014(500+1537)-(0)(1537)}{500} = 0.057pg/l(ppq)$$

allowance for any background dioxin concentration will be made. Thus: To ensure that a WLAh of 0.057 pg/l is protective of the Virginia standard, WLAh is calculated using the Virginia standard, the mean annual seasonal flow of

$$WLAh(pg/l) = \frac{1.2(500 + 702.2) - (0)(702.2)}{500} = 2.9pg/l(ppq)$$

702.2 mgd for the Blackwater River at the point of discharge: Since the wasteload allocation is lower using the North Carolina standard, the Virginia standard is protected.

To derive the appropriate limit the WLA computer model was forced by using a single datum of 99. The model indicates that a Monthly Average and Daily Maximum limit of 0.115 ppq are necessary to protect human health (see Attachment 4: Dioxin model results for Outfall 001). Therefore, the Monthly Average and Daily Maximum limitations for dioxin are set at 0.12 pg/l (ppq) (0.115 rounded to two significant digits), and the QL is set at 10 ppq. A measured value equal to or greater than the QL shall be considered to exceed the limitation.

The Seasonal Maximum mass limitation is  $1.1 \times 10^{-5}$  lb. This value is continued from the previous permit. The Seasonal Maximum mass limitation was derived using the Daily Maximum limitation of 0.115 ppq and the maximum reported seasonal flow of 11,289 million gallons, as follows:

$$(0.12ppq)(11,289)(8.34) = (.12x 10^{-9} ppm)(11,289)(8.34) = 1.1x 10^{-5} lb$$

The monitoring frequency for dioxin at Outfall 001 is being continued from the previous permit at once per discharge season, with the requirement that the monitoring be performed during the final 14 days of the discharge season, when the facility's C storage pond is nearly empty, retention time is lowest and potential dilution from stormwater is lowest.

Furan (2,3,7,8-TCDF): Neither the Virginia nor the North Carolina water quality standards establish a criterion for furan (2,3,7,8-TCDF). The federal ELGs at 40 CFR 430.24(a)(1) establish a daily maximum technology-based effluent limit of 31.9 pg/l (ppq) for bleach line effluents, which has been applied at Outfalls 101, 102 and 103 (see Internal Outfall section above). The previous permit contained a monthly NL monitoring-only requirement for furan at Outfall 001. DMR data from the previous permit term show Daily Maximum furan concentrations ranging from zero to 7.1 ppq, which are all less than the method quantification level (QL) of 10 ppq (see Attachment 4: DMR data tables). Therefore, based on BPJ, the effluent limitation for 2,3,7,8-TCDF is being retained as NL.

Based on BPJ, the monitoring frequency for furan at Outfall 001 is being continued at once per discharge season, with the requirement that the monitoring be performed during the final 14 days of the discharge season, when the facility's C storage pond is nearly empty, retention time is lowest and potential dilution from stormwater is lowest. The seasonal mass limitation of NL in the previous permit is also being retained, and the monitoring frequency is being retained at once per discharge season, based on BPJ.

AOX: Because the facility is a seasonal discharger and is prohibited from discharging final effluent during specific periods of time, it is classified as a non-continuous discharger under 40 CFR 430.01(k)(2). The monitoring frequencies and effluent limitations for AOX are determined by the particular subsections of 40 CFR 430.02 and 430.24, respectively, applicable to the bleach lines at various points in time for non-continuous dischargers. The AOX effluent limitations, however, apply at end-of-pipe (Outfall 001). The numeric AOX effluent limitations applicable to each bleach line during each monitoring period are additive and are combined to determine the total AOX effluent limitation for Outfall 001. Monitoring frequency was 1/week based on Effluent Guidelines, Effective April 17, 2006, the monitoring frequency was reduced to 1/month, based on BPJ, and allowable under 40 CFR 430.02.

The point of compliance is end-of-pipe at Outfall 001. The numeric values for the AOX limitations are determined by summing the applicable limitations for AOX for each of the contributing bleach lines. With this modification, only the F Bleach Line is being put into service; however, it is possible that other lines could be put into service prior to permit reissuance in 2015. While the F bleach line is addressed in the permit as the only operational bleach line at the plant, AOX calculations and final effluent limitations at the external outfall 001 will remain per the permit during the previous operational phase at the mill and during the recent closed period at the mill. The concentration limits of 133 mg/l monthly average and 280 mg/l daily max will remain during this modification, as they did at reissuance when the plant was in a non-operational period. All AOX calculations and limitations will be recalculated at permit reissuance.

The resulting concentration-based annual average AOX limitation is 133 mg/l. Based on BPJ, because the discharge is non-continuous and there is no practical method for determining the annual average of this non-continuous discharge, the annual average effluent limitation for AOX is being expressed as a Monthly Average AOX limitation of 133 mg/l.

Expression of the Annual Average AOX limitation in mass units is accomplished by calculating the allowable annual mass from the contributing bleach lines. In this case, the AOX mass limitation is not changing from the permit reissuance limitation. The resulting mass-based Annual Average AOX limitation is 723,000 lb/yr. Based on BPJ, this annual average effluent limitation for AOX is being expressed as a Seasonal

Maximum limitation of 723,000 lb/season, because there is no practical method for determining the annual average of this non-continuous discharge. As with the concentration limitations for AOX, the mass limitation for AOX will be recalculated at the permit reissuance in 2015. This will allow for a calculation based on all processes contributing to the final discharge at the repurposed plant.

Dissolved metals data were not available for outfall 001; total metals data submitted with the application for reissuance are as follows:

Antimony 0.2 ug/l

Arsenic 2.7 ug/l

Cadmium 0.21 ug/l

Copper 4.8 ug/l

Lead 0.44 ug/l

Mercury < 0.2 ug/l

Nickel 8.4 ug/l

Zinc 11.7 ug/l

All metals concentrations are below the freshwater acute and chronic numeric water quality criteria, and would not cause a violation of the State's water quality standards at these concentrations. No metals effluent limitations are included in this reissued permit.

No organic compounds were detected above method detection levels using methods 624/625.

### Sheryl and Raye -

Based on my proposal to only change the BOD and TSS concentration limits relative to removing the deinking contribution to the final discharge, here is a summary of the change in BOD and TSS limits:

### TSS:

2010 Permit Reissuance: 153 mg/l monthly average, 306 mg/l daily max, measured 1/week

2012 Permit Modification: 136 mg/l monthly average, 272 mg/l daily max, measured 1/week

### BOD:

2010 Permit Reissuance: 79 mg/l monthly average, 158 mg/l daily max, measured 1/week

2012 Permit Modification: 66 mg/l monthly average, 132 mg/l daily max, measured 1/week

The monthly average limits for TSS and BOD are calculated using Effluent Guideline limits and daily production rate to come up with a lb per year limit, then dividing effluent flow and a mathematical constant to get a concentration limit. The daily max concentration limits are 2X the monthly average. I used the production values from the plant operational period with the exception of removing the deinking process, which lowered the concentration limits to the values you see above for the 2012 Permit Modification.

### AOX:

No change for this modification. Final AOX limits are based on a calculated limit for each bleach line and then combined for an additive final limit at the final discharge. If recalculated, the final limit would be roughly 1/3 of the current limit, based on the use of only one bleach line. The limit would be a rough estimate based on estimated projected flows and a second fluff pulp product to be determined at a later date, from the information Raye provided. Once we know the true flow and actual production rate of the F bleach line, we can calculate a more representative limit based on long-term actual flows.

For all the above parameters, I could have used Raye's production rate he supplied, but there is a good possibility IP will never actually discharge under those production numbers, so there seems little benefit to use those production rates in this modification. I would propose to use all new production rates in a future modification for another repurposing product or at reissuance of the permit in 2015, once all repurposing is set and limits calculated would be representative of long-term operation. The recalculations would affect BOD, TSS and AOX final limits, but would not affect the TSS and BOD seasonal max of 2.8 and 4.4 million pounds respectively, which are based on a DEQ Water Quality Management Plan and not on the Federal Guidelines.

Mark Sauer DEQ-TRO Water Permits Section 757-518-2105 mark.sauer@deq.virginia.gov

### Outfall 002

Outfall 002 is storm water only and drains the north rail yard area to the Blackwater River. Past Form 2F data indicate no significant levels of pollutants. The outfall is subject to the facility storm water pollution prevention plan requirements, which includes inspection and record keeping requirements. Railcar unloading areas are surrounded by containment curbing to prevent accidental release or contamination of storm water. The discharge of any process wastewater from this outfall is prohibited under part I.A of the permit. Therefore, based on BPJ, no monitoring is being required.

### Outfalls 006 and 007

Outfalls 006 and 007 are storm water only and drain mostly unpaved surfaces and railroad bed to Washole Creek. Past Form 2F data indicate no significant levels of pollutants. The outfalls are subject to the facility storm water pollution prevention plan requirements, which includes inspection and record keeping requirements. Railcars were temporarily staged in these areas, but are not unloaded. No railcars are currently stored in the area, but could be in the future. The outfall pipes are provided with a valve that can be closed in the event of a spill to prevent accidental release or contamination of storm water. Due to the new non-operational status of the plant, there are no chemicals stored in these areas, and these outfalls are being reclassified to no longer require chemical monitoring.

### Outfalls 008, 009, 011

Outfalls 008, 009 and 011 are storm water only and drain natural vegetated areas outside the facility solid waste landfill. The outfalls are subject to the facility storm water pollution prevention plan requirements, which include inspection and record keeping requirements. Storm water draining from these areas does not come into contact with materials entering the landfill. Pesticides, herbicides, soil conditioners and fertilizers are not applied in these areas. The discharge of any process wastewater from this outfall is prohibited under part I.A of the permit. Therefore, based on BPJ, no monitoring is being required.

### Outfalls 012, 013 and 014

Outfalls 012, 013 and 014 drain areas associated with trailer and construction materials storage. The outfalls are subject to the facility storm water pollution prevention plan requirements, which includes inspection and record keeping requirements. The discharge of any process wastewater from these outfalls is prohibited under part I.A of the permit. Therefore, based on BPJ, no monitoring is being required.

### OutfallS 010 and 015

Outfalls 010 and 015 consist of uncontaminated, untreated fresh groundwater used for facility water supply resulting from periodic flushing of the water supply line for maintenance purposes. The discharge of any process wastewater or storm water from these outfalls is prohibited under part I.A of the permit. Because the discharge is uncontaminated and the facility keeps detailed records of its supply water quality for process quality control and other purposes, no monitoring is required.

§ 429.166 Pretreatment standards for new sources (PSNS).

Any new source subject to this subpart which introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 OFR part 403.

Fixture Production With Water Wash Spray Booth(s) or With Subpart P-Wood Furniture Facilities cafegory Laundry

\$429.170 Applicability; description of the wood furniture and fixture production with water wash spray booth(s) or with laundry facilities subcategory.

lutants into publicly owned treatment This subpart applies to discharges to waters of the United States and to the works from the manufacture of wood furniture and flxtures at establishments that either (a) utilize water wash spray booth(s) to collect and conlize on-site laundry facilities for fabric introduction of process wastewater poltain the overspray from spray applications of finishing materials, or (b) utilutilized in various finishing operations,

resenting the degree of effluent reduction attainable by the application of the best practicable control available § 429.171 Effluent limitations currently technology (BPT),

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control Settleable solids and pH shall be between 6.0 and 9.0 at shall be less than or equal to 0.2 ml/l Except as provided in 40 CFR source subject to this subpart through 125.32, any existing technology (BPT): all times.

duction attainable by the application of the best conventional polygant control technology (BCT). The resenting the degree of effluent Effluent limitations served

19.173 Effluent. Imitations researting the degree of effluent in decision attainable by the applied then of the best available technology economically achievatify. Effluent. nology (BAT). \$429.178

cation of the best available technology sconomically schlevable (BAT); They source subject to this subpart must achieve the following effluent limiting poin Except as provided in 40 OFR 125 ent reduction attainable by the appil shall be no discharge of process waste tions representing the degree of effi existing 125.32, any water pollutants. through

source performance standards (NSPS). \$429.174 New

Any new source subject to this sub part must achieve the following news source performance standards (NSPS) There shall be no discharge of process wastewater pollutants.

§ 429.175 Pretreatment standards existing sources (PSES). Any existing source subject to this owned treatment works must comply. wastewater pollutants into a publicly Drocess subpart which introduces with 40 CFR part 403.

§ 429.176 Pretreatment standards for new sources (PSNS)

treatment works must comply with 40 water pollutants into a publicly owned part which introduces process waste-Any new source subject to this subPARI 430-THE PULP, PAPER, AND PAPERBOARD POINT SOURCE CATEGORY

GENERAL PROVISIONS

Monitoring requirements. General definitions. Applicability. Sec. 430.00 430.01

10 Best management practices (BMPs) pentine management, spill prevention, nd control.

Suppart A—Dissolving Kraft Subcategory

solving kraft subcategory.

Specialized definitions.

Enuent limitations representing the ió. Applicability; description of the dis-

degree of effluent reduction attainable for the application of best practicable general technology currently available

resenting the degree of effluent reduction attainable by the best conventional polynomiator technology (BCT).

Might control technology (BCT).

Mighter control limitations representing the degree of effluent reduction attainable by the application of best available technology. (BPT).

inclogy economically achievable (BAT).

(a) 15. New source performance standards (NSPS).

29916 Pretreatment standards for existing new tor standards 39.17 Pretreatment sources (PSNS). Sources (PSES).

Support B-Bleached Papergrade Kraft and Soda Subcategory 

the 480,20 Applicability; description of the ដ description category.

180.21 Specialized definitions. by the application of best practicable control technology currently available (BFT), agging Efficient limitations representing the

degree of effluent reduction attainable by the application of best available techtrol technology (BCT). degree of effluent reduction attainable by the best conventional pollutant con-

nology economically achievable (BAT). 430.25 New source performance standards

430.26 Pretreatment standards for existing new sources (PSNS).
430.28 Best management practices (BMFs). ģ sources (PSES). 430.27 Pretreatment standards

430.30 Applicability; description of the un-Suppart C-Unbleached Kraft Subcafegory

430.30 Approached fraft subcategory. 4
430.31 Specialized definitions.
430.32 Bifluent limitations representing the
430.32 Bifluent limitations representing the
degree of effuent reduction attainable
by the application of best practicable
control technology ourrently available

430.33 Effluent limitations representing the degree of effluent reduction attainable by the best conventional pollutant control technology (BCT).

by the application of best available feen-nology economically achievable (BAT). 430.35 New source performance standards 430.34 Effluent limitations representing the degree of effluent reduction attainable

430.36 Pretreatment standards for (NSPS).

standards 430,37 Pretreatment sources (PSNS). (PSES).

Subpart D-Dissolving Suifile Subcategory

130,40 Applicability; description of the dis-

430.47 Specialize subcategory.
430.41 Specialized definitions.
430.42 Effluent limitations representing the degree of effluent reduction attaining the application of best pract control technology currently avar.

degree of effluent reduction attainable by the best conventional pollutant con-430.43 Effluent limitations representing trol technology (BCT). (BPT)

degree of effluent reduction attainable by the application of best available tech-430.44 Billuent limitations representing the

430.45 New source performance standards nology economically achievable (BAT).

430.46 Pretreatment standards for existing The W for 430.47 Pretreatment standards sources (PSNS). sources (PSES).

Subpart E-Papergrade Sulfite Subcalegory £10 ij papergrade sulfite subcategory. 430.51 Specialized definitions. 430.52 Effluent limitations represent 430.50 Applicability; description

ourrently available degree of effluent reduction at., by the application of best pract control technology currently evel

430.53 Effluent limitations representing the degree of effluent reduction attainable by the best conventional pollutant con-

430.54 Effluent limitations represending the degree of effluent reduction attainable by the application of best available tech nology economically achievable (BAT). trol technology (BCT).

430.55 New source performance standard (NSPS). 430.56 Pretreatment standards for existing ne for sources (PSES). 430.57 Prefreatment standards

Best management practices (BMFs). sources (PSNS). 430.58 Best manage 6

Minimum level

Method

imum levels apply to pollutants in this

Pollutant

Environmental Protection Agency

following min-

The

callbration point.

SUBCATEGORIZATION SCHEME WITH REFERENCES TO FORMER SUBPARTS CONTAINED IN THE JULY 1

Final codified subpart	Final subcategorization scheme	Types of products covered in the suppert
	G	Pulp and paper at groundwood chemi-mechanical mills (La); pulp and paper all groundwood mils shrough the application of the teams-man-house and paper all an
H	Non-Wood Chemical Pulp Secondary Fiber Deink	್ಷದ
***************************************	Secondary Fiber Non-Deink	print (QA).  Paperboard from wastepaper from noncorrugating medium furnish or front, and contrasting medium furnish or front.
		dehrking its secondary fiber mills (T*), assue paper from wastepaper without dehrking (W*); and builders' paper and roofing left from wastepaper's (40 CFR Part 431, Subpart A*).
	from Purchased Pulp.	Fire Papers at nonIntegrated mills using wood fiber furnish or cotton fiber fully in (FP); and lightweight pepers at nonIntegrated mills or sprivereight elected in the control man in t
	Tissue, Filter, Non-woven, and Paperboard from Pur- chased Pulp.	Tissue papers at nonintegrated mits (Ss); filter and non-woven papers at new; integrated mills (Y*); and pepercoard at nonintegrated mills (2*).

a This subpart is contained in the 40 CFR parts 425 through 699, edition revised as of July 1, 1997

# § 430.01 General definitions.

In addition to the definitions set 403.3, the following definitions apply to forth in 40 OFR part 401 and 40 CFR this part:

A bulk parameter that measures the otal mass of chlorinated organic mat-(a) Adsorbable organic halides (AOX). er in water and wastewater.

(b) Annual average. The mean concentration, mass loading or produc-tion-normalized mass loading of a pollutant over a period of 365 consecutive days (or such other period of time determined by the permitting authority to be sufficiently long to encompass malized mass loading at the relevant expected variability of the concentration, mass loading, or production-norpoint of measurement).

(c) Bleach plant. All process equipment used for bleaching beginning with where bleaching agents are applied toof bleaching tion stage, and each subsequent stage agents (e.g., chlorine, chlorine dioxide, ozone, sodium or calcium hypochlorite, or peroxide), each subsequent extracthe pulp. For mills in subpart E of this the bleach plant includes process equipment used for the hydrolysis or part producing specialty grades of pulp, plication of bleaching agents, Process delignification prior to the application extraction stages prior to the first apfirst application the

of bleaching agents is not part of the bleach plant, (d) Bleach plant effluent. The total discharge of process wastewaters from the bleach plant from each physical prising separate acid and alkaline filt bleach line operated at the mill, comtrates or the combination thereof.

amount of oxygen consumed from a (e) Chemical oxygen demand (COD). A gen-consuming capacity of organic and bulk parameter that measures the oxy. inorganic matter present in water or wastewater. It is expressed as the chemical oxidant in a specific test.

(f) Elemental chlorine-free (ECF). Any process for bleaching pulps in the absence of elemental chlorine and hypochlorite that uses exclusively chlorine dioxide as the only chlorine-containing bleaching agent.

(g) End of the pipe. The point at which final mill effluent is discharged to waters of the United States or Introduced to a POTW.

(h) Fiber line. A series of operations and multiple employed to convert wood or other fibrous raw material into pulp, If the final product is bleached pulp, the fiber ine encompasses pulping, de-knotting, brownstock washing, pulp screening, centrifugal cleaning, and multiple bleaching and washing stages.

"hew source":

ations.

(1) Minimum level (ML). The level at ognizable signals and an acceptable which the analytical system gives rec-

other post-digester, (1) Notwithstanding

codiffed

(J) New source.

Picograms per lifer.

bleaching towers to facilitate replacecluding changes in methods or amounts of chemical applications, new chemical sodium or calcium hypooblorite, and installation of new pull installation applications, ment of

discharge of pollutants at an existing source (including a replacement fiber line), but only if such replacement it production equipment that causes the performed for the purpose of achieving

of a fiber line that causes the discharge of pollutants at an existing source, except as provided in paragraph (1)(2) of

(iii) Its processes are substantially idependent of an existing source at he same site. In determining whether asse processes are substantially inde-

his section; or

gurce, including the total replacement

scharge of pollutants at an existing

no other source is located; or

cept as provided in paragraph  $(\mathbb{R})(\omega)$  o this section, a non-continuous dis charger is a mill which is prohibited b. the NPDES authority from dischargin pollutants during specific periods o time for reasons other than treatmen plant upset control, such periods bein shall not be deemed a non-continuou tion to setting forth the prohibition de scribed above, requires compliand at least 24 hours in duration. A mil discharger unless its permit, in addi the effluent limitations estat lished for non-continuous discharger maximum day and average of 30 cor secutive days effluent limitation secutive days effuent ilmitation Such maximum day and average of 3 requires compliance (E) Non-continuous discharger. and also. scribed with changes made by mills subject to sub-parts B or E of this part that alone do not cause an existing mill to become a (1) Upgrades of existing pulping oper-(ii) Upgrades or replacement of pulp and/or oxygen delignification systems the new facility is engaged in the same ŏ (iii) Installation of extended cooking pandent, the Director shall consider such factors as the extent to which the tage facility is integrated with the extent isting plant; and the extent to which general type of activity as the existing

are examples

(2) The following

source.

pre-bleaching delignification systems;

2.5 ug/L 5.0 ug/L 20 ug/L

4.6- Fetrachlorophenol ...

tachlorophanol

a-Trichloroguaiaco

6- Trichlorophenal 5-Trichtorophenol

6-Trichlorocatechol 5-Trichlorogualacol .8-Trichlorogualacol

5-Trichlorocatechol

Horosyringol 23.7.8-TCDD

1653 1653 1653 1653 1653 1653 1653 1653

(iv) Bleach plant modifications inwashing systems; or coduction equipment that causes the the criteria coddined at we want 122.29(b)(1), a source subject to subject or B of this part is a "new source" if meets the definition of "new source" (i) It is constructed at a site at which (11) It totally replaces the process or

imitations that have been included in the discharger's NPDES, permit pursu ant to §430.24(b). (v) Total replacement of process

screening and washing operations;

consecutive days effluent limitations for non-continuous dischargers shall be established by the NPDES authority in the form of concentrations which reflect wastewater treatment levels that are representative of the application of tional pollutant control technology, or the best practicable control technology currently available, the best convennew source performance standards in lieu of the maximum day and average tions for conventional pollutants set of 30 consecutive days effluent limitaforth in each subpart.

charger for the purposes of determining subpart B or B of this part (other than (2) A mill is a non-continuous disapplicable effluent limitations under limits for existing sources) if, for reasons other than the mill is prohibited by the NPDES authority from discharging pollutants during specific periods of time or if it is required to release its discharge on a variable flow or pollutant loading rate treatment plant upset control (e.g. protecting receiving water quality) conventional bagis.

(1) POTW. Publicly owned treatment works as defined at 40 CFR 403.3(o).

(m) Process wastewater. For subparts B and E only, process wastewater is any water that, during manufacturing or processing, comes into direct con-tact with or results from the producproduct, or waste product. For purposes of subparts B and E of this part, process wastewater includes boiler blowdown; wastewaters from water blowdowns from high rate (e.g., greater than 98 percent) recycled non-contact tion or use of any raw material, intercooling water systems to the extent including leachates, from landfills treatment and other utility operations; they are mixed and co-treated with owned by pulp and paper mills subject to subpart B or E of this part if the wastewater is commingled with wastemediate product, finished product, by water from the mill's manufacturing or other process wastewaters; wastewater, processing facility; and storm waters from the immediate process areas to ed with other process wastewaters. For purposes of this part, contaminated groundwaters from on-site or off-site the extent they are mixed and co-treatprocess

groundwater remediation.projects are not process wastewater.

be measured at the off-the-machine is moisture content, except for subpart of this part (as it pertains to pulp and paperboard production at unblasched kraft mills including linerboard or bag Paper and paperboard production shall (n) Production. (1) For all limitations off-the-machine coating roform: Production shall be defined as the annual off-the-machine production and standards specified in this part except those pertaining to AOX and chlowhere applicable) divided by the number of operating days during that year, paper and other mixed products, and to where paper and paperboard production shall be measured in air-dry-tons (10% moisture content). Market pulp shall be measured in air-dry tons (10% moispulp and paperboard production using the unbleached kraft neutral sulfite semi-chemical (cross recovery) process), and subparts F and J of this part (as they pertain to paperboard produc-tion from wastepaper from for each mill based upon past producnoncorrugating medium furnish or from corrugating medium furnish ture). Production shall be determined tion practices, present trends, or committed growth. (Including

tions and standards specified in subparts B and B of this part. Production shall be defined as the annual unbleached pulp production entering the first stage of the bleach plant divided by the number of operating days during that year. Unbleached pulp production shall be measured in air-dried-metric. (2) For AOX and chloroform limitatous (10% moisture) of brownstock pulp entering the bleach plant at the stage taining compounds are first applied to processes, unbleached pulp production shall be measured in air-dried-metric tons (10% moisture) of brownstock pulp during which chlorine or chlorine-conthe pulp. In the case of bleach plants that use totally chlorine free bleaching plant from which wastewater is disentering the first stage of the bleach charged. Production shall be deter-mined for each mill based upon past production practices, present trends, or committed growth.

(o) TCDD. 2,3,7,8-tetrachlorodibenzop-dloxin,

# **Environmental Protection Agency**

chlorite, chlorine dioxide, chlorine monoxide, or any other chlorine-coning. Pulp bleaching operations that are performed without the use of chlorine, sodium hypochlorite, calcium hypo-(q) Totally chlorine-free (TCF) tetrachlorodibenzofuran. taining compound.

draulto barking operations and wet drum barking operations which are those drum barking operations that use substantial quantities of water in drums or in a partial submersion of the (r) Wet Barking. Wet barking operations shall be defined to include hyeither water sprays in the barking drums in a "tub" of water. 63 FR 18635, Apr. 15, 1998; 63 FR 42239, Aug.

# § 430.02 Monitoring requirements.

where the duration of the minimum determine the appropriate monitoring frequency in accordance with 40 CFR monitoring frequencies for certain polquency is specified in this section or under paragraphs (b) through (e) of this pretreatment. control authority shall 22.44(i) or 40 CFR part 403, as applicasection establishes minimum lutants. Where no monitoring permit writer has monitoring frequency the section, This bie.

frequencies apply to discharges subject to subpart B or subpart E of this part: toring frequency for chlorinated c pollutants. The following monitol...g (a) BAT, NSPS, PSES, and PSNS '" ut-

A 40 a.m.b.a.		Minimum monitoring fraquency	ning frequency
CAS number	במומומנו	Non-TGF*	TCF
198556	Tetrachlorocatacho	Monthly	(4)
539175	Tetrachlorogualacol	Monthly	€
539266	<u>.</u>	Monthly	· E
668248	_	Monthly	<b>©</b>
2139723		Monthly	ହ
6981207	3,4,5-mchlorocatechol	Monthly	
7057837	3.4.5-Irchloroguaiacol	Monthly	ε
8902	2,3,4,6-tetrachlorophenoi	Monthly	E
0712449	3,4,6-trichlorogueiscol	Monthly	(9)
7865	Pentachiorophenold	Monthly	
6062	2,4,6-trichlorophenold	Monthly	E
5954	2,4,5-trichlorophanold	Monthly	Đ
746018	2,3,7,8-TCDD	Monthly	©
1207319	2,3,7,8-TCDF	Monthly	€:
7663	chloroform •	Weekly	<b>£</b>
9473040	AOX' and an	Dally	None specified.
	Appropriate to the first the first term of the f		_

\* Non-TCF: Perfairs to any fiber fine first does not use exclusively TCF bleaching processes, as decided by the discharger in it is in the transition of the transition of the transition of the T2221 (gift) and carried under 40 CFF 12222 (gr. for incited dischargers, as report presentant control authority under 40 CFF 403 12 (b), (d). (e). Perfairment control authority under 40 CFF 403 12 (b), (d) (e). The beauting processes.

\*\*Nonlicing frequency does not specify a finit for this poliularity when used as a blooder. The perinting or pretreatment control authority are appricable.

\*\*Abolicing frequency does not appropriate monitoring frequency for this compound, when used as a blooder. The appricable under 40 CFF 122.44(i) or 40 CFF part 403. as applicable.

\*\*This regulation does not specify a limit for this pollutant for Subpart E mills.

graph (a) of this section apply for the following time periods: (b) Duration of required monitoring for BAT, NSPS, PSES, and PSNS. The moni-(1) For direct dischargers, a duration toring frequencies specified in para-

of 6 years commencing on the date the part. are first included in the discharger's NFDES permit;
(2) For existing indirect dischargers, until April 17, 2006; applicable limitations or standards from subpart B or subpart E part are first included in the

duration of 5 years commencing on the For new indirect dischargers, date the indirect discharger

untary Advanced Technology Incentives program. The following monitoring frequencies apply to mills enrolled in the Voluntary Advanced Technology Incentives Program established under subpart B of this part for a duration of 5 mences operation.
(c) Reduced monitoring frequencies for bleach plant pollutants under the Volyears commencing after achievement in §480.25(c)(i) for the following pollut.

CAS		Min	Minimum monitoring frequency	ćò	
number	Pollutan	Non-ECF*	Advanced ECF Lr.	TOF	(September 1)
1198556	Tetrachlorocatechol	Monthly	Monthly	(8)	
2539175	_	Monthly	Monthly	)E	135
9928227		Monthly	Monthly	Ξ	8
2000248	-	Monthly	Monthly	: 2	B
32139723	3,4,6-lrichiorocatechol	Monthly	Monthly	:€	
56961207	3,4,5-trichlorocatechoi	Monthly	Monthly	Ç S	<b>3</b> 4
57057837	_	_	Monthly	Ds	P.
58902		Monthly	Monthly	D.S	-31
807 12449	3.4.6-trichloroguaiacol		Monthly	25	200
87865	Peniachlorophenol	Monthly	Monthly	C §	100
89062	2,4,8-trichlorophenol*		Monthly		· ·
95954 :	2,4,5-trichlorophenol		Monthly	C	
1746016	2.3.7.8-TCDD		Monthly	C S	14
51207319	_	Monthly	Month	Cs	The state of
67663			Monthly	CS	æ
			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		

a Non-ECF. Petains to any fiber line that does not use exclusively ECF or TCF bleaching processes.

3. Advanced ECF. Petains to any fiber line that uses exclusively ECF or TCF bleaching processes, or exclusively ECF and a secretarity processes, and the line that uses exclusively deviated and a secretarity of the use or exclusively deviated and a secretarity of the use of exclusively explication or other technologies that achieve at least the The Fertains to any liber line \$4.40.24(b)/4(f).

4. The retains to any liber line \$4.40.24(b)/4(f).

5. This regulation does not apply to this compound when used as a biologie. The permitting authority must determine the Advanced is equiency for his compound, when used as a biologie, the permitting authority must determine the formulation of sections of the permitting authority will be suspended alter one year of monitoring permits appropriate monitoring frequency for his compound, when used as a biologic under 40 CFF 122.44(f), must determine the formulation of the permitting authority will be suspended alter one year of monitoring the permitting authority will be suspended alter one year of monitoring permitting authority will be suspended alter the year of monitoring permitting authority will be suspended alter the year of monitoring permitting authority will be suspended alter the water of monitoring permitting authority will be suspended alter the year of monitoring the permitting authority will be suspended by monitoring the permitting authority will be suspended alter the year of monitoring the permitting authority will be suspended by the surface of monitoring the permitting authority will be suppreded the surface of monitoring the permitting authority will be suspended the surface of monitoring the permitting authority will be suspended to make a monitoring the surface of the surface of the surface

Reduced monitoring frequencies for under the Voluntary Advanced Incentives Program (year following monitoring frequencies apply to direct dischargers en-Voluntary Advanced the AOX under Technology  $\operatorname{The}$ 듸 rolled ਉ one).

a duration of one year after achieve. Inent of the applicable BAT limitations Technology Incentives Program estab-lished under Subpart B of this part for specified in §430.24(b)(4)(i) or NSPS specified in §430.25(c)(2)

CAS	Pollulant	Non-ECF, any tier*	Advanced ECF, any tiers	TCF, any tier
1473040	AOX	Dally	Weekly	None specified.
A Man. GO.	Minne SCORY Butter for any filter than the same and the s	10F 10L		,

\*\*Non-ECP perfacts to any liber time in all does not use exclusively ECF or TCP inscripting processes.

\*\*Advanced ECF- Pentans to any liber time in all does not use exclusively Advanced ECF blasching processes or exclusively ECF and a CFC Pentans to any liber in the interest exclusively Advanced ECF pentans to any liber and certified under A0 CFR 122.22 (i)(3) and certified under A0 CFR 122.22.2. Advanced ECF consists of the worlded delignification or other technologies that achieve at least the Tiler and the pental and the second pental pen

(e) Reduced monitoring frequencies for the Voluntary Advanced Technology Incentives Program (years two through five). The following monitoring frequencies apply to mills enthe Voluntary Advanced rechnology incentives Program estabunderü rolled

lished under Subpart B of this part for a duration of four years starting one year after achievement of the applica-ble BAT limitations specified in specified §430.24(b)(4)(1) or NSPS \$ 430.25(0)(2)

55

· any tler	None specified.	
ECF-fler IIIb	Annually	processes.
ECF	Daily	*Non-ECF. Partains to any fiber line that does not use exclusively ECF or TCF bleaching processes.
ECF—Ner IV	Monthly	use exclusively EC!
any lier	Dally	line that does not I
Pollutant	144,40,744,744	antains to any fiber
CAS number	59473040 AOX	* Non-ECF: F

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The padvanced ECF. Pertains to any liber that uses exclusively Advanced ECF bleaching processes or exclusively ECF and services as desclosed by the discharger in its permit application under 40 CFF 122.2/10jk(3) and certified under the configuration of the 122.2. Advanced ECF consists of the use of extended delignification or other technologies that achieve at least the Ties of extended delignification or other technologies that achieve at least the Ties of extended the Ties of ECFF (122.24) and (122.24) and (122.24) and (122.24) and (122.24). Other than that uses exclusively TCF bleaching processes, as disclosed by the discharger in its permit application under 40 CFF (122.24) and certified under 40 CFF (122.24).

Certification in Lieu of Monitoring hum monitoring requirements speci-ed in this section for chloroform at a Ser line to which the limitations or tandards apply if the discharger meets what cirkandards for chloroform under subpart of this part is not subject to the minimstances may a discharger be exempt scharger subject to limitations or on the minimum monitoring requireents of this section for chloroform? the requirements of this section. (b) Certification in Lieu of gr. Chloroform—(1) Under

ದ (2) How do I qualify for the exemption? withe time you request an exemption gom the minimum monitoring requirements of this section for chloroform on your permitting authority or gireatment control authority for iber line, you must:

noted in accordance with paragraph lying with the applicable limitations measgements taken over a period of not ess than two years of monitoring con-(i) Demonstrate, based on 104 standards for chloroform;

record of the maximum value for each of the following process and operating conditions for the fiber line that was (ii) Certify that you will maintain a prorded during the collection of each if the samples used to make the deminstitution required under paragraph D(2)(i) of this section.

(A) The pH of the first chlorine dioxde bleaching stage;

(B) The chlorine (Cl2) content of chlo-ne dioxide (ClO2) used on the bleach

(D) The total bleach line chlorine di-(c) The kappa factor of the first chlo-tine dioxide bleaching stage; and

the collection of samples used to make (411) Identify the chlorine-containing compound used for bleaching during the demonstration required under paragraph (f)(2)(1) of this section; and oxide application rate;

rine-containing (1v) Certify that the fiber line does Ö not use either elemental chlorine

ess and operating conditions on the fiber imum value recorded under paragraph (f)(2)(tt) of this section for that process and operating condition? If you wish to imum monitoring requirements of this (3) What happens if I change the proc line so that one or more exceeds the maxcontinue your exemption from the min section for chloroform, you must:

with the applicable limitations of (i) Demonstrate, based on monitoring conducted at a frequency similar to that required in paragraph (a) of this by the permitting or pretreatmen. Ju-trol authority, that you are complying section and for a duration detstandards for chloroform;

(ii) Certify that: you will maintain t record of the maximum value for each of the following process and operating conditions for the fiber line that was recorded during the collection of each of the samples used to make the dem onstration required under paragraph (f)(6)(1) of this section:

(A) The pH of the first chlorine diox ide bleaching stage

(B) The chloring (Cl2) content of chlo rine dioxide (CIO4) used on the blead line;

(C) The kappa factor of the first chlo rine dloxide bleaching stage; and

(D) The total bleach line chlorine di oxide application rate;

the collection of each sample used to (iii) Identify the chlorine-convacompound used for bleaching during require under paragraph (f)(3)(1) of this section demonstration the make and

not use either elemental chlorine o (iv) Certify that the fiber line doe hypochlorite as bleaching agents.

(4) What are my reporting obligations identified under paragraph (f)(2)(111) this section and that the followin You must certify in reports require under \$122.41(1)(4) or \$403.12(b) of thi chapter, as appropriate, that the chic bleaching are unchanged from thos compounds used

hypochlorite as bleaching agents.

C

must certify to the permit-issuing au thority that they are not using these

### standards for new sources (PSNS) if it not Permittees biocides. uses

chlorophenolic-containing using blocides chlorophenolic-containing

biocides:

SUBPART A

	Maximum for any 1 day	244	
Pollulant or pollutant property		Kokka (or	
	Miligrams/liter (mg/l)	1.000 lb) of (2)	o.
Jan January		product	13 W
Tighlorophenol	(0.012)(50.7)/y	0.0025	
* Wastewaler discharged in kgal per ton of product.	(0.089)(50.7)y		
The following againsted mace flatterior		3	ુ
THE REPORT OF THE PROPERTY OF			

# ince in cases when POTWs and a necessary to impose mession effluent limitations.

### Subpart B-Bleached Papergrade Kraff and Soda Subcalegory

0.20 Applicability; description of the bleached papergrade kraft and soda subcategory. \$ 430.20

The provisions of this subpart apply duction of market pulp at bleached kraft mills; the integrated production of paperboard, coarse paper, and tissue paper at bleached kraft mills; the inteto discharges resulting from: The prothe grated production of pulp and fine papers at bleached kraft mills; and pulp integrated production of paper at soda milis.

# \$430.21 Specialized definitions.

in 40 CFR part 401 and § 430.01 of this (a) The general definitions, abbreviations, and methods of analysis set forth part apply to this subpart.

(b) Baseline BAT limitations or NSPS means the BAT limitations specified in 430.24(a) (1) or (2), as applicable, and the NSFS specified in §430.25(b) (1) or rect discharger that is not "enrolled" in the "Voluntary Advanced Technology (2), as applicable, that apply to any diincentives Program."

(c) Enroll means to notify the permitauthority that a mill intends to participate in the "Voluntary Advanced Fechnology Incentives Program." A mill can enroll by indicating its intention to participate in the program elther as part of its application for a Nadonal Pollutant Discharge Elimination System (NPDES) permit, or through separate correspondence to the permitting

ting authority as long as the mill signis the correspondence in accordance with 40 CFR 122.22.

in \$430.24(a)(1) are present in the effluent of a mill "enrolled" in the "Vol-(d) Existing effluent quality means the level at which the pollutants identified untary Advanced Technology Incentives Program."

(e) Kappa number is a measure of the lignin content in unbleached pulp, definitional after pulping and prior to bleaching.

centives Program is the program established under §430.24(b) (for existing direct dischargers) and §430.25(c) (for new able effluent limitations and conditions in their NPDES permits that are (f) Voluntary Advanced Technology Indirect dischargers) whereby participating mills agree to accept enforcelimitations or NSPS" that would other wise apply, in exchange for regulatory. and enforcement-related rewards and more stringent than the "baseline BAT ncentives.

resenting the degree of effluent reduction attainable by the application of the best practicable control available limitations currently \$ 430.22 Effluent technology (BPT).

125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effuent reduction attainable by the application of the best practicable control technology currently available (BFT); 40 CFR provided in (a) Except as

# SUBPART B

[BPT effluent limitations for bleached kraft facilities where market pulp is produced]

3

3.60	Kg/kkg (or	Kg/kkg (or pounds per 1,000 lb) of product	50 (G) 04
	· Confinuous dischargers	dischargers	Nan-cantin-
FOUNTAIN OF DOMINANT PARTIMETER	Maximum for any 1 day	Average of daily values for 30 con-	uous dis- chiergers (annual average)
2000	15,45	90'B	4.52
introduction of the second control of the se	8 E	E	5. 

if it is the structure of the state of the s SUBPART B

-	· ·	product	,
	Continuous dischargers	dischargers	klan gantin
Politiant or pollutant parameter	Maximum for any 1 day	Average of daily values for 30 consecutive days	chargers chargers (annual average)
<u>2005</u>		1.7	3.99
100 mm - 100	8 8 2 8 2	 3.58	8°C

# Within the range of 5.0 to 9.0 at all times.

[BPT effluent limitations for bleached kreft facilities where pulp and fine papers are produced] SUBPART B

Kg/kkg (or pounds per 1,000 lb) of

	, .	(	* ~	•
	Mondaille	uous dis- chargers (annual average)	15 E	
3	dischargers	Average of daily values for 30 consecutive days	6.6 11.9 (1)	·•
	Continuous dischargers	Maximum for any 1 day	10.6 22.15 (1)	-
		Pollutant or pollutant parameter	1905	Within the range of 5.0 to 9.0 at all times.

effluent limitations for soda facilities where putp and paper are produced SUBPART B

Pollutant or pollutant parameter Axerage of Average of Continuous discharges Pollutant or pollutant parameter Axerage of Average of	Į.	Kg/kkg (or pounds per 1,000 lb) of product	s per 1,00 juct	) (q) ot
Maximum dality values change of the change in the change of the change o		ontinuous dischar	gera	Non-confin-
13.7 7.1 24.6 13.2 (1) (1)			tge of values on the other of the other of the other of the other of the other	chargers (ennual average)
	1806.5	13.7 24.5	7.1 13.2 (?)	3,98 7,25 (1)

6 - 27

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of wet barking operations, which may be discharged by a point source subject (b) The following limitations establish the quantity or quality of pollutants or pollutant properties, controlled by this section, resulting from the use to the provisions of this subpart. These

\$ 430.22

this section and shall be calculated using the proportion of the mill's total production due to use of logs which are limitations are in addition to the limi tations set forth in paragraph (a) of

subject to such operations:

[BPT effluent limitations for bleached kraft facilities where market pulp is produced] SUBPART B

	e	Ε	SWAHIN the course of Foundation
18 18 18 18 18 18 18 18 18 18 18 18 18 1	2.85	6.0	HIT IS NOT THE REPORT OF THE PERSON OF THE P
R.O		2.3	150 miles marie manufacture manufacture marie ma
	Average of daily values for 30 con-	Maximum for any 1 day	SAME
Non-confin-	Continuous dischargers	Continuous	Pollutent or pollutant paremeter
10 (d) 000	Kg/kkg (or pounds par 1,000 lb) of product	Kø/kkg (e	
2			

IBPT effluent limitations for bleached kraft facilities where paperboard, coarse paper, and itssue paper are produced SUBPART B

	Kg/kkg (o:	KgAkg (or pounds per 1,000 ib) of product	000 (e) er
Politiant or politizat marameter	Confinuous	Confinuous dischargers	
	Maximum for any 1 day	Average of delly values for 30 con- seculive days	Non-contin- tious dis- chargers (annual average)
\$008	8.25 6.75	5. E.	1.70
*1 Within the range of 5.0 to 9.0 at all times.			

(BPT affuent limitations for bleached knaft tacitities where pulp and fing papels are produced) SUBPART B

Kg/kkg (or paunds per 1,000 lb) of product	Continuous dischargers Non-contin-	Maximum for dally values any 1 day for so con-	1,95 1.0 0.55 5.3 2.88 1.55	
	Pollutant or pollutant parameter		80D5	Within the same of 6.0 to 0.0 to 1.11

SUBPART B

Kg/kkg (or pounds per 1,000 lb) of ± 2,5 2,8 Average of daily values for 30 con-Continuous dischargers [BPT effluent limitations for soda facilities where pulp and papers are produced] 2.05 5.26 (1) Maximum for any 1 day Pollutant or pollutant parameter

Within the range of 5.0 to 9.0 at all times.

operations, which may be discharged by a point source subject to the proviish the quantity or quality of pollutcolled by this section, resulting from the use of log washing or chip washing The following limitations estabparameters, or pollutant 9 ante

portion of the mill's total production due to use of logs and/or chips which sions of this subpart. These limitations be calculated using the pro are in addition to the limitations forth in paragraph (a) of this sect are subject to such operations: and shall

SUBPART B

[BPT effluent limitations for bleached kraft facilities where market pulp is produced]

Maximum for daily values any 1 day security e days			Kg/kkg (or	Kg/kkg (or pounds per 1,000 lb) of product	70 fb) of	-
Maximum for daily values any 1 day 1 day 1 day 2 days 2 days 2 days 0.2 0.1			Continuous	dischargers	Non-contin-	
0,2		or pountain paratrucer	Meximum for any 1 day	Average of daily values for 30 consecutive days	uous dis- chargers (annual average)	
	***************************************		0.2 0.6 (!)	0.1	0.16 ()	

Within the range of 5.0 to 9.0 at all times

effluent limitations for bleachted knelt facilities where paperboard, coarse paper, and literus paper are produced

SUBPART B

Kg/kkg (ar pounds per 1,000 lb) of

	Continuous	Continuous dischargers	Non-contin-
Pollutant or pollutant perameter	Maximum for	Average of daily values	chargers
	any 1 day	for 30 con- secutive days	average)
900	0.25	0.15	0.05
SS promote the second of the s	0.65	0,35	0.20
	0	5	3

"Within the range of 6.0 to 9.0 at all times

# SUBPART B

[BPT effluent limitations for bleached kraft facilities where pulp and tine papers are produced]

		•	•
	. Kg/kkg (o	Kg/kkg (or pounds per 1,000 lb) of product	700 lb) of
Politiant or politiant parameter	Continuous	Continuous dischargers	Non-county
	Maximum for any 1 day	Average of dally values for 30 con-	
тем полительного п	0.55	0.3	200
Within the range of 5.0 to 9.0 at all times.		5	

### SUBPART B

[BPT efficient fimilations for soda facilities where pulp and papers are produced]

	AGYKKO (OZ	Ngrkkg (or pounds per 1,000 lb) of '	o (ql oo
Poliulant or poliutant parameter	Continuous	Continuous dischargers	Non-corfo
	Maximum for any 1 day	Average of daily values for 30 consecutive days	charges (annual
8005	At C		
На	0.5	0,25	0.15
***************************************	Ē	5	

Within the range of 5.0 to 9.0 at all times,

(d) The following limitations establish the quantity or quality of pollutof log flumes or log ponds, which may be discharged by a point source subject to the provisions of this subpart. These ants or pollutant properties, controlled by this section, resulting from the use

this section and shall be calculated using the proportion of the mill's total limitations are in addition to the limi production due to use of logs which ag subject to such operations: tations set forth in paragraph (a)

### SUBPART B

[BPT effluent linklations for bleached kraff facilities where market pulp is produced]

	o) Breedin	ng/king (or pounds per 1,000 (b) of product	Jo (q) co
Pollutant or pollutant parameter	Continuous	Continuous dischargers *	Non-confined to
	Average of daily values any 1 day secutive days	Average of daily values for 30 con-	uous dis chargers chargers (annual charge)
188	0.4 21.13	0.0	0.15 6
1 Within the range of 5.0 to 0.0 of all all almost			是做路地Vision

Environmental Protection Agency

### SUBPART B

18. BPF sillusit straiters for bleached knaft facilities where paperboard, coarse paper, and tissue paper are produced

ું છે લિ લ	Non-contin-	uous dis- chargera (arinual average)	0.10 0.35 (!)
Kg/kkg (or pounds per 1,000 lb) of product	dischargers	Average of daily values for 30 con-	0.25 0.7 (!)
Kg/kkg (or	Continuous dischargers	Maximum for any 1 day	0.45 1.25 (1)
	Politiani or robilitani narameter		for the second control of the second control

Vilhin the range of 5.0 to 9.0 at all times.

### SUBPART B

BPT effuent Amitations for bleached kraft facilities where puip and tine papers are produced.

Pollutant or pollutant persmeter  Pollutant or pollutant persmeter  Pollutant or pollutant persmeter  Raximum dalay fellos of chargers (annual days)  Continuous discharges of chargers (annual days)  Continuous discharges (annual days)					(
Confinuous dischargers  Maximum day velles charge of charge velles charge day velles charge day charge of charge velles day		. Kg/kkg (o	r pounds per 1, product	000 (b) of	F
Maximum dally velues charge for tools charge for days (amin secutive days days days (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		Continuous	dischargers	,	
0.35 0.2 1.16 0.8 (¹) (¹)	bilutani or polititant parameter	Maximum for eny 1 day	Average of daily values for 30 consecutive days	chargers (annual average)	•
(i) (a) (b)	***************************************	0.35		0.30	
	***************************************	€	Û	E	

file the range of 5.0 to 9.0 at all times.

[BPT effluent ilmitations for soda facilities where pulp and papers are produced]

SUBPART B

*:* 

	Kg/kkg (or	Kg/kkg (or pounds per 1,000 lb) of produci	/o (q) 000	
	Confinuous	Continuous dischargers	Mon nouth	
Politrant or politriant parameter	Maximum for any 1 day	Average of dally values for 30 considers securive days	chargers (annual average)	
	0.3 1.1 (1)	0.2 0.55 (!)	1 20 (1)	(

Within the range of 5.0 to 9.0 at all times.

resenting the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). limitations Effluent

Except as provided in 40 CFR 125.30 group 125.32, any existing point give subject to this subpart must Sheve the following effluent limitaons representing the degree of efflureduction attainable by the appilgation of the best conventional polluttations shall be the same as those int control technology (BCT). The lim-

the best practicable control technology currently available (BPT). specified in §430.22 of this subpart for

duction attainable by the applica-tion of best available technology resenting the degree of effluent reeconomically achievable (BAT). limitations \$430.24 Effluent

Except as provided in 40 CFR 125.30 through 126.32, any existing point source subject to this subpart must through.

TABLE 4C INDUSTRIAL WASTEWATER DISCHARGERS TO BLACKWATER RIVER SUB-BASIN

HLSDGNI	NDUSTRIAL DISCHARGERS					PRESENT 1
DESCHARGER	RECEIVING	TREATMENT	ACTIVAL.	AVERAGE	MAX I MUM BODs	AVERACE
			- 4 50 5 E 4			
Anton Camp Bleach Paper (001)	Blackwater River	Clarification, Accation and Notating Ponds	14×10 gal/yr		4.4 x 106 #/Yr	2.88 x 10 <sup>6</sup> #/Yr
ion Camp Bullding	Blackwater River	None	31.	No Limits	· .	
. Regis Paper Company	Trib, to Blackwater River	None	50.	No Limits		
Union Camp Bleach Paper (002)	Blackwater River	None	.72	No Limits	•	
Ossunite Corporation #1	Spring Branch Settling Box	Settling Box	.002	1.2 #/10	2.4 #/D	07/// 56
Passonite Carporation #2	Spring Branch Rone	וויו	. 002	1.7 4/15	3.4 #/10	2.1 #/1)
DESCO to Steven Kent	Woody's Fond	None	N/ V *	V/V	V/N	V/N_
Spuriock (OOL)	Spring Branch	Malding Pond w/ Aeration	Period- ie Dis- charge		· · · · ·	
Spurtock (002)	Spring Branch Conting Nater Otscharge	Canting Water Otscharge	. 197			

### ATTACHMENT 7 SPECIAL CONDITIONS RATIONALE

### LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

- B. Other Requirements or special Conditions
- 1. Nutrient Enriched Waters Reopener

Rationale: The Policy for Nutrient Enriched Waters, 9 VAC 25-40 -10 allows reopening of permits for discharges into waters designated as nutrient enriched if total phosphorus and total nitrogen in a discharge potentially exceed specified concentrations. The policy also anticipates that future total phosphorus and total nitrogen limits may be needed.

2. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under section 303 of the Act.

3. Licensed Operator Requirement

<u>Rationale</u>: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

4. Operations & Maintenance (O & M) Manual

Rationale: The State Water Control Law, Section 62.1-44.21 allows requests for any information necessary to determine the effect of the discharge on state waters. Section 401 of the Clean Water Act requires the permittee to provide opportunity for the state to review the proposed operations of the facility. In addition, 40 CFR 122.41 (e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) in order to achieve compliance with the permit (includes laboratory controls and QA/QC).

5. Notification Levels

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-200 and 40 CFR 122.42 (a) require notification of the discharge of certain parameters at or above specific concentrations for existing manufacturing, commercial mining and silvicultural discharges.

6. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4.

7. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters with quantification levels and other limited parameters to ensure consistent, accurate reporting on submitted reports.

8. Materials Handling and Storage

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-50 A., prohibits the discharge of any wastes into State waters unless authorized by permit. The State Water Control Law, Sec. 62.1-44.18:2, authorizes the Board to prohibit any waste discharge which would threaten public health or safety, interfere with or be incompatible with treatment works or water use. Section 301 of the Clean Water Act prohibits the discharge of any pollutant unless it complies with specific sections of the Act.

9. Effluent Monitoring Frequencies

Rationale: The incentive for reduced monitoring is an effort to reduce the cost of environmental compliance and to provide incentives to facilities which demonstrate outstanding performance and consistent compliance with their permits. Facilities which cannot comply with specific effluent parameters or have other related violations will not be eligible for this benefit. This is in conformance with Guidance Memorandum No. 98-2005 - Reduced Monitoring and EPA's proposed "Interim Guidance For Performance-Based Reduction of NPDES Permit Monitoring Frequencies" (EPA 833-B-96-001) published in April 1996.

10. Ground Water Monitoring Plan

<u>Rationale</u>: Ground water monitoring will indicate whether the system integrity is being maintained and will determine if activities at the site are resulting in violations of the SWCB's Groundwater Standards.

11. Sampling Methodology for Outfall 001

<u>Rationale</u>: Defines methodology for collecting representative effluent samples in conformance with applicable regulations.

12. Use of Trichlorophenol or Pentachlorophenol as Biocides

<u>Rationale</u>: Federal regulations at 40 CFR 430 Subparts B and I require certification by facilities not using certain biocides.

13. Discharge Flow Management for Outfall 001

Rationale: The VPDES Permit Regulation at 9 VAC 25-31-220 K. and federal regulations at 40 CFR 122.44(k) allow BMPs for the control of toxic pollutants listed in Section 307(a)(1) and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law. Actual daily Instream Waste Concentration (IWC) is being limited to a maximum of 65% to ensure that actual

IWC is significantly less than the 75% utilized in the Toxics Management Program for toxicity testing purposes.

Rationale and Discussion for Out-Of-Season Discharges:

The permittee submitted a permit modification request in May 2008. The permit modification request came after numerous discussions between the permittee and DEQ concerning allowing IP to discharge some wastewater outside the permitted season of November to March. IP was concerned that in recent years low river flows, low in-stream dissolved oxygen levels and/or high water temperatures have made it difficult for IP to begin their discharge season early enough to allow the release of the entire contents of "C" pond, which they need to empty prior to March 31 in order to be able to accommodate all of the wastewater generated during the times of year they do not discharge. They have had to request out-of-season discharges in past years. There were no regulatory criteria for requesting, approving, monitoring or documenting such discharges. Through subsequent discussions it was decided to best include these types of discharges in the VPDES permit if IP felt the need to request these in the future. Specific language has been developed to address these discharges. Specific rationale for the language follows.

- 16.a. This language has not changed from the previous permits except to note that out-of-season discharges will be authorized in Part I.B.16.c.
- 16.b. This language has changed only in that this section now specifically applies to routine seasonal discharges from November to March.
- 16.c. and 16.d. This language specifically addresses out-of-season discharges. Out-of -season discharges will be considered for approval in September and October. If the permittee submits acceptable and approvable toxicity test results using early life-stage herring, out-of-season discharges will be considered in all months except April and May. April and May discharges will not be approved due to two main factors. The first is that the wildlife and fisheries staffs from North Carolina, Virginia and the US Fish and Wildlife Service have expressed concern over spring time discharges that could potentially affect shad and herring spawning and migration. Correspondence from these agencies is presented in Attachment 14. Secondly, IP has indicated that the intent of these out-of-season discharges was to coincide with storm events that provide for higher river flows than typical for the season. These types of storm events are more frequent in later summer and fall months rather than the short-duration, localized heavy rainfalls associated with spring thunderstorm events. The benefit from allowing short-duration discharges in these months does not outweigh the need to protect indigenous fish populations in these months, including populations that may linger in the Blackwater River past the typical migration time frame. Discharges in other months will be considered for approval by the DEQ Regional office on a case-by-case basis. All out-of-season discharges must be approved before an out-of-season discharge can take place. Out-of-season discharges based on the results of toxicity testing in June, July and August will be limited to the IWC identified in the toxicity tests as the NOEC.
- 16.c.1. provides the requirements for requesting out-of-season discharges. This will standardize the request process and provide the DEQ the information considered necessary to approve such a request.
- 16.c.l.a. addresses the discharge rate and management thereof to protect against toxicity to aquatic organisms and be protective against biological impacts in the receiving stream. This is similar to the existing requirement for permitted discharge season discharges presented in 16.b. of the current permit. The IWC will be limited to 45% during each discharge day for out-of-season discharges. This is based on two factors. The first is that the DEQ does not want the receiving stream to be effluent-dominated during times of high water

temperatures, low dissolved oxygen levels and potential impacts from storm events. Secondly, IWC data submitted with toxicity test results from 2003 to the present indicate that the permittee has had IWC levels from 2% to 38%, with no IWC greater than 38% for in-season discharges. It is not prudent nor protective of the receiving stream to allow higher IWC concentrations during times of out-of-season discharges than the permittee has maintained during typical permitted discharges during times of the least critical river conditions. The permittee has demonstrated passing toxicity test results consistently when IWC's were less than 45%, so toxicity testing will not be required during out-of-season discharges as long as the IWC is less than 45%. Data are presented below.

International Paper VA0004162: Instream Waste Concentrations (IWC) for Chronic Toxicity Samples Collected 2003-2008

Date of Chronic	IWC Range for	NOEC	NOEC
Toxicity Sample	the 3 Chronic Samples	Survival	Reproduction
2/11/2008	7-9%	100%	100%
1/28/2008	31-33%	100%	100%
1/7/2008	29-38%	100%	100%
2/19/2007	6-9%	100%	75% ENSR
		100%	56% CBI
1/22/2007	13-16%	100%	100%
2/22/2006	12%	100%	75%
1/16/2006	18-20%	100%	100%
2/24/2005	12% 15% Max for the Season	100%	100%
2003-2004 Season	24% Max for the Season		
2/17/2004	4%	100%	75% ENSR
			100% CBI
2/24/2003	2-3%	100%	42%

- 16.c.1.b. addresses in-stream dissolved oxygen (D.O.) levels and monitoring of instream D.O. levels prior to an out-of-season discharge. This section also addresses review of the D.O. data and management of the discharge rate so that D.O. levels are maintained at ambient in-stream levels, with no impact to instream D.O. levels attributable to the out-of-season discharge. The permittee will need to provide D.O. data and proposed discharge management practices to ensure D.O. levels are not impacted by the discharge.
- 16.c.2. addresses the duration of discharge. The permittee will be allowed to discharge during times of increased river flow and must cease discharging before river flows return to historical averages. This will ensure that the discharge is associated only with increased flows as indicated in the permittee's modification request, and therefore protects the receiving stream from impacts associated with a discharge during critical river conditions.
- 16.c.3. addresses monitoring requirements during out-of-season discharges. The permittee must monitor at least once per discharge for each out-of-season discharge. If a discharge event lasts longer than 7 calendar days, the permittee must monitor in accordance with Part I.A. of the permit. Effluent limitations listed in Part I.A. will be in effect during out-of-season discharges. This requirement ensures compliance with the permit, the State permit regulation and 40 CFR for discharges from pulp and paper mills. The permittee will be required to submit a discharge monitoring report (DMR) providing the results of effluent sampling. 2,3,7,8-TCDD and 2,3,7,8-TCDF are

not subject to discharge-event limitations, these parameters are only subject to seasonal limitations, and are subject to 1/season monitoring, required in the last 14 days of the discharge season. Therefore, monitoring for these parameters will not apply to out-of-season discharges.

16.c.4. addresses documentation and evidence to show that the out-of-season discharge(s) caused no environmental impacts in the receiving stream. This is in accordance with the general Water Quality Standard that prohibits a discharge to alter the receiving stream.

## 14. In-Stream D.O. Monitoring during in-season discharges

Rationale: The Virginia Water Quality Standards at 9 VAC 25-260-50 establish minimum dissolved oxygen criteria that must be maintained. The VPDES regulations at 9 VAC 25-31-210 and -220 authorize the establishment of conditions and limitations necessary to assure compliance with applicable requirements and water quality standards.

This condition applies to discharges during the discharge season of November to March. This is to separate this requirement from the monitoring and discharge management requirements in condition 16.c. that addresses out-of-season discharges. The condition requires the permittee to regulate the discharge so that all D.O. standards downstream of the discharge shall be maintained. The discharge from this facility has little impact upstream of the discharge.

## 15. Sampling Methodology for Outfall 103

<u>Rationale</u>: Defines methodology for collecting representative effluent samples in conformance with applicable regulations.

16. Measurement and Reporting of Kappa Number for Outfall 103

Rationale: Kappa Number is a method-defined analyte regulated under 40 CFR .430 for bleach lines enrolled in the Voluntary Advanced Technology Incentives Program. The methodology for measuring and reporting Kappa Number in conformance with applicable regulations must be defined.

17. Filtrate Recycling and Certification

<u>Rationale</u>: 40 CFR .430.24(b) requires that pulping process filtrates be recycled for bleach lines enrolled in the Voluntary Advanced Technology Incentives Program.

18. New Discharge Characterization for Outfall 001

Rationale: The permit limitations are based on assumed effluent quality characteristics when application Form 2E is used or when new processes are proposed and addressed by a permit modification. These assumptions (and the permit basis) can only be validated with actual effluent data. The submission of actual data is required in the application form instructions. The characterization will be required with the application for reissuance.

## 19. Form 2F Sampling

Rationale: The permit limitations are based on assumed effluent quality characteristics (no data submitted with application as required). These assumptions (and the permit basis) can only be validated with actual effluent

data. The submission of actual data is required in the application form instructions. In this case, Outfall 009 needs to be characterized as a result of spills from the landfill area to the storm water outfall. Characterization will indicate whether or not landfill leachate has impacted this outfall. The characterization will be required with the application for reissuance.

C. Best Management Practices (BMPs) for Spent Pulping Liquor, Soap and Turpentine Management, Spill Prevention, and Control

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44(k) allow BMPs for the control of toxic pollutants listed in Section 307(a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law. In addition federal categorical effluent guidelines at 40 CFR 430.03 prescribe certain best management practices applicable to this facility. The facility has been implementing the conditions required in the BMPs over the previous permit term, and all items are currently completed or are ongoing. Changes in operations, processes and/or controls may necessitate updating the BMPs at the facility in the future.

## D. TOXICS MANAGENENT PROGRAM (TMP)

Rationale: To determine the need for pollutant specific and/or whole effluent toxicity limits as may be required by the VPDES Permit Regulation, 9 VAC 25-31-220 D. and 40 CFR 122.44 (d). See Attachment 9 of this fact sheet for additional justification.

## E. STORM WATER MANAGEMENT CONDITIONS

## 1. Recording of Results

Rationale: This sets forth the information which must be recorded and reported for each storm event sampling (ie. date and duration event, rainfall measurement, and duration between qualifying events). It also requires the maintenance of daily rainfall logs which are to be reported. This condition is carried over from the previous storm water pollution prevention plan requirements contained in the EPA storm water baseline industrial general permit.

## 2. Sampling Waiver

Rationale: This condition allows the permittee to collect substitute samples of qualifying storm events in the event of adverse climatic conditions. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

## 3. Representative Discharge

Rationale: This condition allows the permittee to submit the results of sampling from one outfall as representative of other similar outfalls, provided the permittee can demonstrate that the outfalls are substantially identical. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

4. Quarterly Visual Examination of Storm Water Quality

Rationale: This condition requires that visual examinations of storm water outfalls take place at a specified frequency and sets forth what information needs to be checked and documented. These examinations assist with the evaluation of the pollution prevention plan by providing a simple, low cost means of assessing the quality of storm water discharge with immediate feedback. Use of this condition is a BPJ determination based on the EPA storm water multi-sector general permit for industrial activities and is consistent with that permit.

 Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

Rationale: This condition requires that the discharge of hazardous substances or oil from a facility be eliminated or minimized in accordance with the facility's storm water pollution prevention plan. If there is a discharge of a material in excess of a reportable quantity, it establishes the reporting requirements in accordance with state laws and federal regulations. In addition, the pollution prevention plan for the facility must be reviewed and revised as necessary to prevent a reoccurrence of the spill. Use of this condition is a BPJ determination based on the EPA storm water multisector general permit for industrial activities and is consistent with that permit.

6. Allowable Non-Storm Water Discharges

Rationale: The listed allowable non-storm water discharges are the same as those allowed by the EPA in their multi-sector general permit, and are the same non-storm water discharges allowed under the Virginia General VPDES Permit for Discharges of Storm Water Associated with Industrial Activity, 9 VAC 25-151-10 et seq. Allowing the same non-storm water discharges in VPDES individual permits provides consistency with other storm water permits for industrial facilities. The non-storm water discharges must meet the conditions in the permit.

7. Storm Water Pollution Prevention Plan

Rationale: The Clean Water Act 402(p) (2) (B) requires permits for storm water discharges associated with industrial activity. VPDES permits for storm water discharges must establish BAT/BCT requirements in accordance with 402(p)(3) of the Act. The Storm Water Pollution Prevention Plan is the vehicle proposed by EPA in the final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity (Federal Register Sept 9, 1992) to meet the requirements of the Act. Additionally, the VPDES Permit Regulation, 9 VAC 25-31-220 K., and 40 CFR 122.44 (k) allow BMPs for the control of toxic pollutants listed in Section 307 (a)(1), and hazardous substances listed in Section 311 of the Clean Water Act where numeric limits are infeasible or BMPs are needed to accomplish the purpose/intent of the law.

## ATTACHMENT 8

TOXICS MONITORING/TOXICS REDUCTION/
WET LIMIT RATIONALE

## **MEMORANDUM**

## VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

## **TIDEWATER REGIONAL OFFICE**

5636 Southern Boulevard

Virginia Beach, VA 23462

SUBJECT: TMP language for International Paper-Franklin (VA0004162)

TQ:

Deanna Austin

FROM:

Mark Sauer

DATE:

August 26, 2010

COPIES:

TRO File (PPP #617)

International Paper-Franklin (IP) is a paper mill located in Franklin, VA. IP had operated the facility as a paper mill until its closure in April 2010. Although there is no production, the facility would like to keep their permit active. Future operations at the mill are unknown at this time but there are numerous repurposing proposals that could be done. Because of this, the permit will remain active with all existing discharge points. The facility will have post closure discharges related to cleanup and process wastewater from C pond from the operating year prior to plant closure. Outfall 001 discharges to the Blackwater River. Data collected during the 2006-2010 permit term are shown in the table below.

DESCRIPT		- ALC: 4.7			Euloco.		TEST ON THE	SALAD
ENDESCRIBICATE SE	SPECIES	SAMPLEDISE	ELC5U.3	SURVIVALE	REMODES:	がいいか	TESTICOM # 15	1 '
1st Set of 2 Chronic Tests	C.d.	1/16/06			100	1	Repro 100%	CBI
1st Set of 2 Acute Tests	C.d.	1/18/06	100	100		1		ENSR
1st Set of 2 Chronic Tests	C.d.	2/20/06		100	75	1.33	Repro 75% Split sample with ENSR	CBI
1st Set of 2 Chronic Tests- Split Sample	C.d.	2/20/06	, <u> </u>	100	100	1	Split sample with CBI	ENSR
1st Set of 2 Acute Tests	C.d.	2/22/06	100	95	₹ £ <u></u>	1	Split sample with ENSR	CBI
1st Set of 2 Acute Tests- Split Sample	C.d.	2/22/06	100	100	and the state of t	11_	Split sample with CBI	ENSR
2nd Set of 2 Chronic Tests	C.d.	1/22/07		100	100	11_	Repro 100% Split sample with ENSR	CBI
2nd Set of 2 Acute Tests	C.d.	1/24/07	100	100		1	Split sample with ENSR	СВІ
2nd Set of 2 Chronic Tests	C.d.	2/19/07		100	56	1.79	NOEC 75% for the ENSR data Tuc 1.33	СВІ
2nd Set of 2 Acute Tests	C.d.	2/21/07	100	100	j	11_	Split sample with ENSR	CBI
3rd Set of 2 Chronic Tests	C.d.	1/7/08		100	100	11_	Pre Release Tox	СВІ
3rd Set of 2 Acute Tests	C.d.	1/9/08	100	- 100		1	Pre Release Tox	CBI
3rd Set of 2 Chronic Tests	C.d.	1/28/08		100	100	: <u> </u>		CBI
3rd Set of 2 AcuteTests	C.d.	2/1/08	100	100	1	<u>1</u> 1		CBI
3rd Set of 2 Chronic Tests	C.d.	2/11/08		100	100	11_		СВІ
3rd Set of 2 Acute Tests	C.d.	2/13/08	100	100		<u> 1</u>		CBI
4th Set of 2 Acute Tests	C.d.	1/7/09	100	100	•	1_	,	CBI
4th Set of 2 Chronic Tests	C.d.	1/7/09	! !	100	100	1		CBI
4th Set of 2 Acute Tests	C.d.	2/18/09	100	100	1	1		CBI

4th Set of 2 Chronic Tests	C.d.	2/18/09		100	100	1	СВІ
5th Set of 2 Chronic Tests	C.d.	1/4/10		100	100	1	СВІ
5th Set of 2 Acute Tests	C.d.	1/6/10	100	100		1	CBI
5th Set of 2 Acute Tests	C.d.	2/15/10	100	100		1	СВІ
5th Set of 2 Chronic Tests	C.d.	2/15/10		100	100	1	CBI

The following language is recommended for the International Paper-Franklin permit.

- 1. Biological Monitoring Outfall 001
  - The permittee shall conduct two acute and two chronic toxicity tests a. each discharge season. The acute test samples shall be collected using a grab sample of final effluent from outfall 001. The chronic test samples shall be collected using at least three grab samples of final effluent from outfall 001 during the chronic test. The second acute test shall be conducted during the second chronic test. The last grab sample for the second chronic test shall be collected within 14 days of the end of the discharge season. The acute tests shall be 48-hour static tests using Ceriodaphnia dubia, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50. The chronic tests shall be static renewal tests using Ceriodaphnia dubia. The C. dubia test shall be a 3-brood survival and reproduction test. These chronic tests shall be conducted in such a manner and at sufficient dilutions to determine the NOEC for survival and reproduction. The results of all analyses shall be reported. Test results for each test shall be submitted by the 10th of the month after the month the test results were received.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

- b. The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with 1.a above.
- c. The following criteria shall be used in evaluating the toxicity test data generated in 1.a above:
  - Acute LC<sub>50</sub> greater than or equal to 100% effluent;
  - (2) Chronic NOEC greater than or equal to the IWC of 75%
- d. If, in the testing according to I.D.1, any toxicity tests are invalidated, the tests shall be repeated within the testing period that the original test was taken, or if already past that period, within fourteen (14) days of notification. If there is no discharge during this period, a sample must be taken during the first allowable discharge.
- e. All applicable data will be evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of D.1.a. may be discontinued.

## Reporting Schedule

Each toxicity test report submitted in accordance with this Toxics Management Program shall identify the specific period represented. The permittee shall report the results and supply one complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody.

	(a)	Conduct first set of two acute and two chronic biological tests	By March 31, 2011	
	(b)	Submit results of all biological tests	By the 10 <sup>th</sup> of the month following the month in which test results were received but no later than May 10, 2011	
· !	(c)	Conduct second set of two acute and two chronic biological tests	By March 31, 2012	
	( <b>a</b> )	Submit results of all biological tests	By the 10 <sup>th</sup> of the month following the month in which test results were received but no later than May 10, 2012	
	(e)	Conduct third set of two acute and two chronic biological tests	By March 31, 2013	
	(£) <sub>.</sub>	Submit results of all biological tests	By the 10 <sup>th</sup> of the month following the month in which test results were received but no later than May 10, 2013	
	(g)	Conduct fourth set of two acute and two chronic biological tests	By March 31, 2014	
	(h)	Submit results of all biological tests	By the 10 <sup>th</sup> of the month following the month in which test results were received but no later than May 10, 2014	
·	(i)	Conduct fifth set of two acute and two chronic biological tests	By March 31, 2015	
	(j) ·	Submit results of all biological tests	By the 10 <sup>th</sup> of the month following the month in which test results were received but no later than May 10, 2015	

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## ATTACHMENT 9

RECEIVING WATERS INFO./
TIER DETERMINATION/STORET DATA/
STREAM MODELING/303(d) LISTED SEGMENTS

## Planning Permit Review

Date: 2/23/2012

To: Kristie Britt, TRO

Permit Writer: M. Sauer

Facility: International Paper - Franklin Mill

Permit Number: VA0004162

Issuance, Reissuance or Modification (if Modification describe): Modification

Permit Expiration Date: 11/15/2015

Waterbody ID (ex: VAT-G15E): VAT-K36R

Topo Name: Riverdale 05C

Facility Address:

34040 Union Camp Drive, Franklin, VA 23851 – note – facility address is approx. 7 miles from the actual discharge location. Lat Long of discharge location is 36 34 08 76 53 09.

Receiving Stream: Attached are topographic maps showing facility property boundaries and outfall(s) locations for those included in this request.

Stream Name: Blackwater River	
Stream Data Requested? No	
Outfall #: 001	Lat Lon: 36 34 08 76 53 09
Outfall #:	Lat Lon:
Outfall #:	Lat Lon:
Stream Name (2):	
Stream Data Requested?	
Outfall #:	Lat Lon:
Outfall #:	Lat Lon:
Outfall #:	Lat Lon:

If greater than 2 receiving streams or 3 outfalls per stream please provide a separate table with outfall listings and Latitude Longitude description.

## Planning Review:

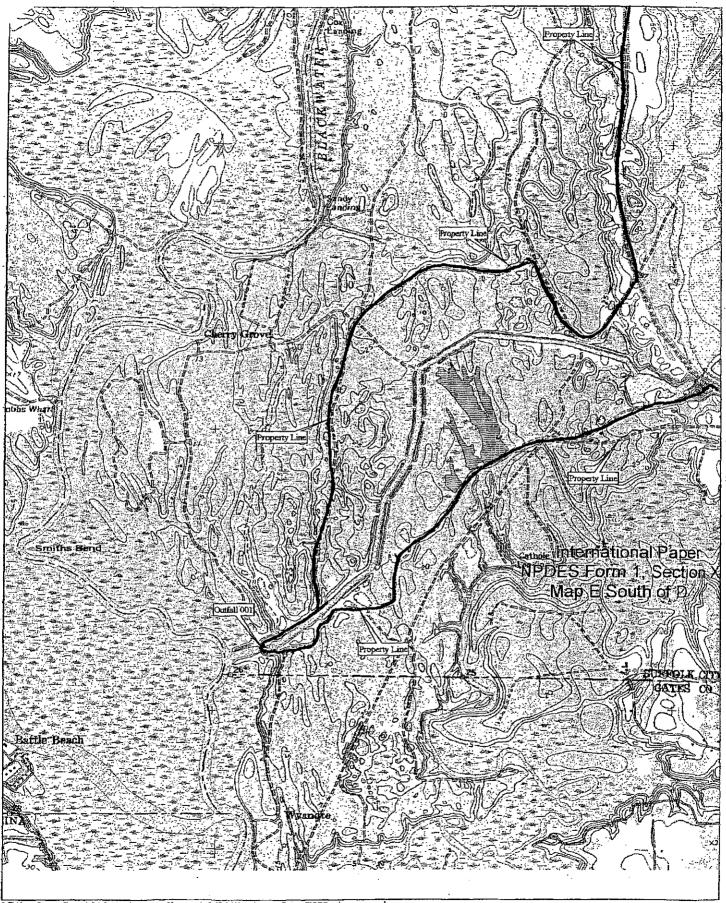
303 (d): Indicate Outfalls which discharge direc	
(Category 5) stream segment and parameters in	apaired
Outfall 001 discharges on property at wastewater treatm	ent unit then to impaired segment VAT-K36R BLW05A08. Impairments
include DO (natural conditions) and mercury. See Attac	hment 1 for list and description of impaired parameters.
Tier Determination	
Tier The Blackwater River is a Tier Attachment 2.	1 water based on biological data collected at Station 5ABLW001.10. See
Tier	
Management Plan	
Is the facility Referenced in a Management Plan?	No
Are limits contained in a Management Plan?	No

Review will be completed in 30 days of receipt of request.

## Additional Comments:

The Blackwater River is proposed for the next Triennial Review to be changed to a Class VII water.

KNB 3/5/2012





## 2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Cause Group Code mpaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
(31R-01-BAC	Blackwater Swamp, Warwick Swamp						
Recreation	Escherichia coli	5A			22.71	2006	2014
	Escherichia coli	5A			13.20	2008	2014
(31R-02-BAC	Second Swamp						
Recreation	Escherichia coli	5A			9.55	2010	2016
(31R-04-BAC	Warwick Swamp					-	
Recreation	Escherichia coli	5A			2.93	2010	2022
31R-04-BEN	Warwick Swamp						
quatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			2.93	2010	2022
(31R-05-BAC	North Fork Blackwater Swamp						
Recreation	Escherichia coli	5A			5.78	2010	2022
32R-01-BAC	Blackwater River						
Recreation	Escherichia coli	5A			24.01	2006	2010
	Escherichia coli	5A			1.03	2008	2010
(32R-01-BEN	Blackwater River - Lower					**************************************	
quatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			1.03	2008	2020
32R-04-BAC	Otterdam Swamp	h					
ecreation	Escherichia coli	5A			5.88	2006	2014
32R-05-BAC	Coppahaunk Swamp, UT - XDT						
Recreation	Escherichia coli	5A			0.91	2006	2014
32R-11-BAC	XDR - UT to Otterdam Swamp	The state of the s					
Recreation	Escherichia coli	5A			2.61	2010	2018
32R-13-HG	Blackwater River Basin						
ish Consumption	Mercury in Fish Tissue	5A			37.53	2004	2016
	Mercury in Fish Tissue	5A			25.38	2006	2018
	Mercury in Fish Tissue	5A			528.80	2008	2018
	Mercury in Fish Tissue	5A			282.28	2008	2020
	Mercury in Fish Tissue	5A			1.58	2010	2020
Workson from the state of the Wallet was the Wallet with the Wallet Wallet was the Wallet with the Wallet was the Wallet with the Wallet was the Wallet w	Mercury in Fish Tissue	5A			214.74	2010	2022
(32R-15-BAC	Spring Branch, UT (XAW)			•			
Recreation	Escherichia coli	5A			1.07	2010	2022
32R-18-BEN	Blackwater River, UT						
quatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			3.13	2008	2020
(33R-02-BAC	Blackwater River - Upper						
Recreation	Escherichia coli	5A			18.94	2008	2020
33R-02-BEN	Blackwater River - Upper						
quatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			18.94	2008	2020
(33R-03-BEN	Blackwater River - Lower		armening to be the country to the country of		All to Public America		
Aquatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			4.14	2008	2020



## 2010 List of Naturally Impaired Waters (Category 4C)\* No TMDL Needed

Chowan River a	nd Dismal Swamp Basins				
Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
K36R-01-DØ	Blackwater River - Lower				
Aquatic Life	Oxygen, Dissolved	4C			10.21
K36R-03-DO	Washole Creek				
Aquatic Life	Oxygen, Dissolved	4C			0.64
K37R-01-DO	Buckhorn Creek				
Aquatic Life	Oxygen, Dissolved	4C			1.55
K37R-01-PH	Buckhorn Creek				
Aquatic Life	рН	4C	,		1.55
K38R-01-DO	Somerton Creek				
Aquatic Life	Oxygen, Dissolved	4C			9.09
K39R-01-DO	Dismal Swamp Canal & Feeder Ditch to Lake Drummo	ond			
Aquatic Life	Oxygen, Dissolved	4C			17.58

<sup>\*</sup> Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.

# Appendix A - List of Impaired (Category 5) Waters in 2010

# Chowan River and Dismal Swamp Basins

Cause Group Code: K32R-13-HG

Blackwater River Basin

Location: Blackwater River and tributaries from its headwaters to the VA-State Line

City / County: Dinwiddie Co.

Suffolk City Southampton Co.

Prince George Co.

South Boston City

Use(s): Fish Consumption

During the 2006 cycle, the Blackwater River from Route 31 near Dendron downstream to the Virginia-North Carolina state line was assessed as impaired of the Fish Consumption Use due to a VDH fish consumption advisory for mercury. Cause(s) / Wercury in Fish Tissue / 5A

During the 2008 cycle, the advisory was expanded to include the Blackwater River to its headwaters, including all of its tributaries. The advisory currently recommends consuming no more than two meals/month of largemouth bass, sunfish species, bowfin, chain pickerel, white catfish, redhorse sucker and

The advisory is based on the results of DEQ's fish tissue monitoring program, which show mercury exceedances at multiple stations throughout the watershed.

Blackwater River Basin

Mercury in Fish Tissue - Total Impaired Size by Water Type:

River (Miles)

Estuary (Sq. Miles)

Fish Consumption

Sources:

Atmospheric Deposition -Toxics

Source Unknown

Attachment 1-3

## **VIRGINIA**

305(b)/303(d)

## WATER QUALITY INTEGRATED REPORT

to

CONGRESS and the EPA ADMINISTRATOR

for the

**PERIOD** 

January 1, 2003 to December 31, 2008





Richmond, Virginia
November 2010

## Virginia Department of Environmental Quality Biological Monitoring Program 305(b) Assessment Fact Sheet

Regional Office: TRO Review Date: 6/21/11

Stream Name and Site Location: Blackwater River (Control), Southampton County

Station ID #: 5ABLW001.10
Assessment Method: MACS

## Biological Assessments for the Last Five Years

Year	spring score	spring assessment	fall score	fall assessment
2005			8	Moderately Impaired
2006			14	Moderately Impaired
2007				•
2008	13	Moderately Impaired	12	Moderately Impaired
2009				•
2010				
seasonal avg 6-yrs	13.0		11.33	
seasonal avg last 2-yrs	13.0		13.0	
final 6-yr average	12.17		11.75	
final 2-yr average	13.0		0.0	

Note, because of the long six year time frame covered by this review and for a variety of reasons, some sites may not have been sampled during every year or season and/or an assessment ranking or score may not be available for every "cell" in the above table. The above table is intended to be a convenient method to be used to summarize and review all the data available for the period of concern. The final assessment ranking for each site should be based on a review of all the available rankings shown in the above table and any pertinent supplemental data described below. For the purpose of 305(b) report preparation, if more recent bioassessment rankings differ significantly from earlier rankings, primary consideration should be given to the more recent assessment data. This is described in more detail of section 9.3 of the 305(b) guidelines.

Supplemental Information (if applicable): CPMI not calibrated for swamps and large rivers, so stream is possibly only slightly impaired.

Final Assessment Rating: Slightly to moderately impaired

Biological data demonstrates in stream toxicity based on CPMI scores <16

## **TMDL Permit Review**

Date: 2/23/2012

To: Jennifer Howell, TRO

√JSH 3/9/2012

Permit Writer: M. Sauer

Facility: International Paper - Franklin Mill

Permit Number: VA0004162

Issuance, Reissuance or Modification (if Modification describe): Modification

Permit Expiration Date: 11/15/2015

Waterbody ID (ex: VAT-G15E): VAT-K36F

Topo Name: Riverdale 05C

Facility Address:

34040 Union Camp Drive, Franklin, VA 23851 – note – facility address is approx. 7 miles from the actual discharge location. Lat Long of discharge location is 36 34 08 76 53 09.

Receiving Stream: Attached are topographic maps showing facility property boundaries and outfall(s) locations for those included in this request.

Stream Name: Blackwater River	
Click here to enter text.	
Outfall #: 001	Lat Lon: 36 34 08 76 53 09
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Stream Name (2): Click here to enter text.	
Click here to enter text.	
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.
Outfall #: Click here to enter text.	Lat Lon: Click here to enter text.

If greater than 2 receiving streams or 3 outfalls per stream please provide a separate table with outfall listings and Latitude Longitude description.

Is there a design flow change? If yes give the change. Click here to enter text.

## TMDL Review:

Is a TMDL IN PROGRESS for the receiving stream? No		
Has a TMDL been APPROVED that includes the receiving str	eam?	
No, *See note below in Additional Comments*		
If yes, Include TMDL Name, Pollutant(s) and date of approv	al:	
Click here to enter text.		
Is the facility assigned a WLA from the TMDL?	No	
If Yes, what is the WLA?		
Click here to enter text.		

Review will be completed in 30 days of receipt of request.

## **Additional Comments:**

A Natural Conditions assessment was completed to confirm the DO impairment is due to natural conditions and does not require the development of a TMDL. (Blackwater Dissolved Oxygen Assessment for Blackwater Swamp Waters: Approved 4/8/2010) The current Assessment Category is "4C – Not needing a TMDL". During the next Triennial Review, this section of the Blackwater River is proposed to be changed from a Class II to a Class VII swamp water.

## ATTACHMENT 10

TABLE III(a) AND TABLE III(b) - CHANGE SHEETS

## TABLE III(a)

# VPDES PERMIT PROGRAM Permit Processing Change Sheet

Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes). . ~-|

e 153 mg/l mo avg to 136 mg/l Deletion of deink mo avg; 306 mg/l daily max recalculation of limits and process caused to 272 mg/l daily max recalculation of limits moavg; 158 mg/l daily max recalculation of red Eff Guideline to 132 mg/l daily max recalculation of limits moavg; 158 mg/l daily max recalculation of limits and permit with this modification the permit with this modification as the mill is repurposing and putting some internal bleach lines back into operation remained in cluded/Not Included at the mill, only softwood will not be used at the mill, only softwood	PARAMETER
79 mg/l mo avg to 66 mg/l moavg; 158 mg/l daily max to 132 mg/l daily max  luded in Not included/included in permit  Included/Not Included	CHANGED FRG
uded in Not included/included in permit	BOD No change
included Included/Not Included	All Not included/included/incl
	Kappa – Included/Not Hardwood Annual Average

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL
Special Conditions numbers 15-17 (Sampling Methodology for Outfall 103, Measurement and Reporting of Kappa Number for Outfall 103, Filtrate Recycling)	Added back into permit as a result of the repurposing of the mill. These conditions were removed from the permit at reissuance while the mill was not in an operational mode.	
Special Condition number 18 (New Discharge Characterization for Outfall 001)	Added to permit to require a discharge characterization of final effluent from outfall 001 as a result of the repurposing of the mill. The characterization will be due with the application for reissuance of the permit.	
Special Condition number 19 (Form 2F for Outfall 009)	Outfall 009 needs to be characterized as a result of spills from the landfill area to the storm water outfall. Characterization will indicate whether or not landfill leachate has impacted this outfall.	
Special Condition I.C. (Best Management Practices)	Added back into permit as a result of the repurposing of the mill. This condition was removed from the permit at reissuance while the mill was not in an operational mode.	
Special Condition number 6 (Quantification Levels Under Part I.A.)	The condition was updated to include QL's for the parameters in outfall 103.	

TABLE III(b)

VPDES PERMIT PROGRAM Permit Processing Change Sheet Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes). . H

DATE & INITIAL							DATE & INITIAL
RATIONALE D							I .
EFFLUENT LIMITS CHANGED FROM / TO		÷	-				CHANGED TO:
MONITORING LIMITS CHANGED FROM / TO							
PARAMETER CHANGED							BES FROM:
ÖUTFALL NUMBER	001						OTHER CHANGES FROM:

## ATTACHMENT 11

NPDES INDUSTRIAL PERMIT RATING WORKSHEET

AND

EPA PERMIT CHECKLIST

## NPDES Permit Rating Work Sheet Regular Addition **Discretionary Addition** NPDES NO: V A 0 0 0 4 1 6 2 Score change, but no status change Deletion Facility Name: INTER MATIONALAL PAPER City: FRANKILIEW UIRGINKELA Reach Number: 1 Is this permit for a municipal separate storm sewer Is this facility a steam electric power plant (SIC=4911) serving a population greater than 100,000? with one or more of the following characteristics? Power output 500 MW or greater (not using a cooling pond/lake) YES; score is 700 (stop here) A nuclear power plant Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rate NO (continue) NO (continue) YES: score is 600 (stop here) **FACTOR 1: Toxic Pollutant Potential** Primary SIC Code: | Z | 6 | 7 | 1 PCS SIC Code: Other SIC Codes: Industrial Subcategory Code: [\_\_\_\_\_\_ (Code 000 if no subcategory) Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one **Toxicity Group** Code -**Points** Toxicity Group Code **Points** Toxicity Group 35 No process 40 20 8 waste streams

25

## FACTOR 2: Flow/Stream Flow Volume (Complete Either Section A or Section B; check only one)

5

Section A	-Wastewater Flow Only	/ Conside	red	•	Section B-Wa	astewater and Stream Fl	ow Consid	ered
Wastewa (See Inst			Code	Points	Wastewater Type (See Instructions)	Percent of Instream Wastewater Concen-	Code	Points
Type I:	Flow < 5 MGD Flow 5 to 10 MGD Flow > 10 to 50 MGD		11 12 13	0 10 20	: .	tration at Receiving Stream Low Flow		
	Flow > 50 MGD	_	14	30	Type Mil:	< 10%	<u>.</u> 41	0
Type II:	Flow < 1 MGD	<del></del>	21	10		> 10% to < 50%	42	10
	Flow 1 to 5 MGD Flow > 5 to 10 MGD	_	22 23	20 30		> 50%	43	20
,	Flow > 10 MGD		24	50	Type II:	<10%	51	0
Type III:		_	31	0		> 10% to < 50%	_ 52	20
	Flow 1 to 5 MGD Flow > 5 to 10 MGD	_	32 33	10 20		> 50%	53	30
	Flow > 10 MGD		34	30	•			

Code Checked from Section A or B:  $\frac{5}{3}$ 

45

Code Number Checked:

**Total Points Factor 1:** 

30

## NPDES Permit Rating Work Sheet

		·NF	DES No.:	VA100	10 4 1 6	الحا
FACTOR 3: Conventional Pollutants (only when limited by the permit)						maken i merenden ned
A. Oxygen Demanding Pollutant: (check one) VBOD	COI	) <u>`</u>	Other:	-	·	•
Permit Limits: (check one) < 100 lbs/day >100 to 1000 lbs/day >3000 lbs/day	Code . 1 . 2 . 3 . 4	Points 0 5 15 20	÷	. •		
					Code Checked: Points Scored:	1710
D. Total Commanded Calida (TCC)					÷ .	÷
B. Total Suspended Solids (TSS)						
Permit Limits: (check one) < 100 lbs/day >100 to 1000 lbs/day >5000 lbs/day >5000 lbs/day	Code 1 2 3 4	Points 0 5 15 20		· · · .		· ·
			•		Code Checked: Points Scored:	<u> 4</u>     1 0
			-		romes scored.	
C. Nitrogen Pollutant: (check one)AmmoniaO	ther:			•		
C. Millogen Foliatant: (Check One) Animorka O					<del>-</del> -	
Permit Limits: (check one)	Code 1 2 3 4	Points 0 5 15 20				
				· .	Code Checked: Points Scored:	20
		-		Total Points I	Factor 3: 6 0	6
FACTOR 4: Public Health Impact Is there a public drinking water supply located within 50 mi the receiving water is a tributary)? A public drinking water ultimately get water from the above referenced supply.	les downs supply ma	tream of t	he effluent d infiltration g	ischarge (this inclu galleries, or other m	des any body of wat ethods of conveyan	er to which ce that
YES (if yes, check toxicity potential number below)  NO (if no. go to Factor 5)	- •	•			•	-
Determine the human health toxicity potential from Factor 1. (Be sure to use the human health toxicity					ubcategory refere	nce as in
Toxicity Group Code Points Toxicity Gro	опр Со	de Po	ints	Toxicity Group	Code Points	
No process		3 (4 (5 5 5 5 6 1)		7. 8. 9.	7 15 8 20 9 25 10 30	÷
				Code Number C Total Points Fac		X.

## NPDES Permit Rating Work Sheet

NPDES No.:	1.7	A.	010	10	, 4	$\mathcal{L}$	6	2
NADEO MO"		1	1-		1			, ,

## FACTOR 5: Water Quality Factors

_	
A.	is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-
	based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the
	discharge?

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

, .	Code	Points
Yes	1	0
No	2	5.

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

Code Number Checked: 
$$A \downarrow I \qquad B \downarrow I \qquad C \downarrow Z \downarrow$$
Points Factor 5:  $A \downarrow I \downarrow O \downarrow + B \downarrow O \downarrow + C \downarrow C \downarrow O \downarrow = \downarrow I \downarrow O \downarrow TOTAL$ 
(0)

## **FACTOR 6: Proximity to Near Coastal Waters**

A. Base Score: Enter flow code here (from Factor 2): | | | | Enter the multiplication factor that corresponds to the flow code: | | |

Check appropriate facility HPRI Code (from PCS):

HPRI#	Code	HPRI Score	Flow Code	Multiplication Factor
- 1	1	20	11, 31, or 41	0:00
			12, 32, or 42	0.05
2	Ź	· o	13, 33, or 43	0.10
·	_	<u>-</u>	14 or 34	0.15
$-\sqrt{3}$	3	30	21 or 51	0.10
	•	-	22 or 52	0.30
٠.4	4	0	23 or 53	0.60
	•	<u>.</u>	24	1.00
5	5	20		

HPRI code checked: 3

Base Score: (HPRI Score) 30 x (Multiplication Factor) 0.6 = 5 (TOTAL POINTS)

B. Additional Points--NEP Program
For a facility that has an HPRI code of 3, does the facility
discharge to one of the estuaries enrolled in the National
Estuary Protection (NEP) program (see instructions) or
the Chesapeake Bay?

C. Additional Points-Great Lakes Area of Concern for a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (see instructions)

Code Number Checked: A 
$$\boxed{3}$$
 B  $\boxed{1}$  C  $\boxed{2}$ 

Points Factor 6: A  $\boxed{0}$  5 + B  $\boxed{1}$  0 + C  $\boxed{0}$  0 =  $\boxed{1}$  TOTAL

## NPDES Permit Rating Work Sheet

NPDES NO: WA 000 4 1 6 2

## SCORE SUMMARY

	Factor	Description		Total Points				_	-
÷	1 2 3 4 5	Toxic Pollutant I Flow/Stream flo Conventional Po Public Health Im Water Quality Fo Proximity to Nea TOTAL (Factor)	w Volume illutants pacts actors ir Coastal Water	25 30 60 — 10 5 15 140					
<b>S</b> 1.	Is the to	tal score equal to	or greater than 8	0? Yes (Facil	lity is a major)	No	. •		
<b>S</b> 2.	If the an	No		would you like this face		etionary major?	•		-
	. •	Reason:							
				•					
			• .	•				•	•
									,
		NEW SCORE:	140	•	•				
		OLD SCORE:	140	•	•				•
							Sauer		
					Permit Revi	ewer's Name  5 (8 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7	05		
					Date	8/23/10			

## State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

## Part I. State Draft Permit Submission Checklist

VA0004162

Facility Name:

NPDES Permit Number:

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

International Paper - Franklin Mill

Permit Writer Name:	Mark Sauer				
Date:	2/21/12				
Major [ X]	Minor [ ]	Industrial [ X]	Mun	icipal [	]
I.A. Draft Permit Packa	ge Submittal Includes	3 <b>:</b>	Yes	No	N/A
1. Permit Application?			Х		
Complete Draft Perm including boilerplate in		me permit – entire permit,	Х		
3. Copy of Public Notice	1?			x	
4. Complete Fact Sheet	?		Х		
5. A Priority Pollutant So	creening to determine p	parameters of concern?	Х		
6. A Reasonable Potent	ial analysis showing ca	aiculated WQBELs?	Х		
7. Dissolved Oxygen ca	lculations?			Х	
8. Whole Effluent Toxici	ty Test summary and a	ınalysis?	Х		
9. Permit Rating Sheet t	for new or modified ind	ustrial facilities?	Х		
<u>I.B.</u>	Permit/Facility C	haracteristics	Yes	No	N/A
1. Is this a new, or curre	ently unpermitted facility	?		Х	
	orm water) from the fac	ned sewer overflow points, non- ility properly identified and	х		
Does the fact sheet of treatment process?	r permit contain a desc	cription of the wastewater	Х		
I.B. Per	mit/Facility Chara	cteristics - cont.	Yes	No	N/A
	CS/DMR data for at lea iance with the existing	st the last 3 years indicate permit?		Х	
5. Has there been any owas developed?	hange in streamflow ch	naracteristics since the last permit		х	

	oes the permit allow the discharge of new or increased loadings of any ollutants?		X	
bo	oes the fact sheet <b>or</b> permit provide a description of the receiving water ody(s) to which the facility discharges, including information on low/critical ow conditions and designated/existing uses?	Х		
8. D	oes the facility discharge to a 303(d) listed water?	Х		
a.	Has a TMDL been developed and approved by EPA for the impaired water?		X	
b.	Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?	Х		
C.	Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?		Х	
	ave any limits been removed, or are any limits less stringent, than those in e current permit?		X	
10. D	oes the permit authorize discharges of storm water?	Х		
	as the facility substantially enlarged or altered its operation or substantially creased its flow or production?		Х	
	re there any production-based, technology-based effluent limits in the ermit?	Х		
	o any water quality-based effluent limit calculations differ from the State's andard policies or procedures?		X ·	
14. A	re any WQBELs based on an interpretation of narrative criteria?		×	
	oes the permit incorporate any variances or other exceptions to the State's andards or regulations?		х	
16. D	oes the permit contain a compliance schedule for any limit or condition?		X	
	s there a potential impact to endangered/threatened species or their habitat y the facility's discharge(s)?		х	
	ave impacts from the discharge(s) at downstream potable water supplies een evaluated?			. X
	there any indication that there is significant public interest in the permit ction proposed for this facility?	Х		
20. H	lave previous permit, application, and fact sheet been examined?	Х		

## Part II. NPDES Draft Permit Checklist

## Region III NPDES Permit Quality Review Checklist – For Non-Municipals (To be completed and included in the record for <u>all</u> non-POTWs)

	II.A. Permit Cover Page/Administration	Yes	No	N/A
1.	Does the fact sheet <b>or</b> permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	Х		
2.	Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	Х		

II.B. Effluent Limits - General Elements	Yes	No	N/A
<ol> <li>Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?</li> </ol>	х		
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			х

II.C	C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ)	Yes	No	N/A
1.	Is the facility subject to a national effluent limitations guideline (ELG)?	Х		
	a. If yes, does the record adequately document the categorization process, including an evaluation of whether the facility is a new source or an existing source?	×		
	b. If no, does the record indicate that a technology-based analysis based on Best Professional Judgement (BPJ) was used for all pollutants of concern discharged at treatable concentrations?			х
2.	For all limits developed based on BPJ, does the record indicate that the limits are consistent with the criteria established at 40 CFR 125.3(d)?	X	-	
3.	Does the fact sheet adequately document the calculations used to develop both ELG and /or BPJ technology-based effluent limits?	Х		
4.	For all limits that are based on production or flow, does the record indicate that the calculations are based on a "reasonable measure of ACTUAL production" for the facility (not design)?	X		
5.	Does the permit contain "tiered" limits that reflect projected increases in production or flow?		Х	
	a. If yes, does the permit require the facility to notify the permitting authority when alternate levels of production or flow are attained?			X
6.	Are technology-based permit limits expressed in appropriate units of measure (e.g., concentration, mass, SU)?	Х		

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ) – cont.	Yes	No	N/A
7. Are all technology-based limits expressed in terms of both maximum daily, weekly average, and/or monthly average limits?	Х		
8. Are any final limits less stringent than required by applicable effluent limitations guidelines or BPJ?		X	

	II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1.	Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	Х		
2.	Does the record indicate that any WQBELs were derived from a completed and EPA approved TMDL?		X	
3.	Does the fact sheet provide effluent characteristics for each outfall?	Х		
4.	Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
	a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	X		
	b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?	X		
	c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?	Х		
	d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations where data are available)?			X
	e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?	X		
5.	Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	Х		
6.	For all final WQBELs, are BOTH long-term (e.g., average monthly) AND short-term (e.g., maximum daily, weekly average, instantaneous) effluent limits established?	X		
7.	Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	Х		
8.	Does the fact sheet indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	Х		

.

	II.E. Monitoring and Reporting Requirements	Yes	No	N/A	
1.	Does the permit require at least annual monitoring for all limited parameters?	Х			
	a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?				
2.	Does the permit identify the physical location where monitoring is to be performed for each outfall?	х			
3.	Does the permit require testing for Whole Effluent Toxicity in accordance with the State's standard practices?	Х		-	
	II.F. Special Conditions	Yes	No	N/A	
1.	Does the permit require development and implementation of a Best Management Practices (BMP) plan or site-specific BMPs?	х			
	a. If yes, does the permit adequately incorporate and require compliance with the BMPs?	X			
2.	If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			х	
3.	Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	Х		-	
	II.G. Standard Conditions	Yes	No	N/A	
1.	Does the <b>permit</b> contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	Х			
Lis	st of Standard Conditions – 40 CFR 122.41				
Du Ne Du Pro	Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate Proper O & M Property rights Duty to provide information Inspections and entry Monitoring and records Signatory requirement Bypass Permit actions  Property rights Duty to provide information Inspections and entry Monitoring and records Signatory requirement Bypass Compliance schedules 24-Hour reporting Other non-compliance				
2.	Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for existing non-municipal dischargers regarding pollutant notification levels [40 CFR 122.42(a)]?	х	·		

## Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	Mark Sauer			
e.				
Title	Water Permit Manager			
Signature	Chika	·		
Date	2/21/12			

## ATTACHMENT 12

CHRONOLOGY SHEET

## ATTACHMENT 13

Public Participation/
Pertinent Correspondence



34040 Union Camp Drive Franklin, VA 23851

December 19, 2011

UPS Tracking #- 12 292 393 42 5328 5390

Mr. Mark Sauer Virginia Department of Environmental Quality 5636 Southern Boulevard Virginia Beach, VA 23462



Re: VPDES Permit No. VA0004162 – International Paper, Franklin Mill Permit Modification Request

Dear Mr. Sauer:

International Paper (IP) requests a VPDES permit modification to address the restart of the Franklin Mill fluff pulp operation. The following items will need to be added or changed in our existing permit to meet the new operations. Any section not addressed by this modification request will remain as previously submitted in the May 19, 2010 permit renewal application.

## • Form 1

- Section VII SIC Codes International Paper plans to operate as a pulp mill (2611)
- o Section XII Nature of Business Manufacturer of bleached fluff pulp
- Section XIII Certification Name and Official Title Allison Magness, Mil Manager

## Form 2C

- Add Section I Outfall Location
  - A. Outfall Number 103
  - **B.** Latitude N36 40 49
  - C. Longitude W76 54 46
  - D. Receiving Water Internal outfall F Bleach Line
- Section II Flows, Sources of Pollution and Treatment Technologies
  - A. See attached
  - B. See attached



## Section III Production

- C. 1. Average Daily Production
  - a. Quantity per day 844
  - **b. Units of measure** Gross off the machine production in air dried tons
  - c. Operation, Production, Material, ETC. Pulp
- C. 2. Affected Outfalls 001
- C. 1. Average Daily Production
  - a. Quantity per day 925
  - **b.** Units of measure Air dried tons unbleached brown stock
- c. Operation, Production, Material, ETC. Unbleached pulp production entering first stage of bleach plant
- C. 2. Affected Outfalls 103

## Section V Intake and Effluent Characteristics

Reported in Section V. D

## Section VI Potential Discharges Not Covered by Analysis

No data available, mill not operating

## Section IX Certification

- A. Name and Official Title Allison Magness Mill Manager
- **B. Phone No.** 757-569-4848

## Form 2F

## Section IV Narrative Description of Pollution Sources

- A. See attached
- **B.** See attached
- C. See attached

## Section VI Significant Leaks or Spills

- Outfall 009 On September 30,2010 the landfill berm was breached as a result of a rain event greater than a 24 hour 25 year storm event caused by Tropical Storm Nicole. As a result of the breach an undetermined volume of leachate was released into the drainage area of Outfall 009.
- Outfall 009 On August 27,2011the landfill berm was breached as a result of a rain event greater than a 24 hour 25 year storm event caused by Hurricane Irene. As a result of the breach an undetermined volume of leachate was released into the drainage area of Outfall 009.



We look forward to working with you to make these modifications. Please contact Raye Moore at (757) 569-4793, if you have any questions regarding this request.

Sincerely,

Sheryl S. Raulston

Sheep S. Renton

EHS Manager



## Sauer, Mark (DEQ)

From:

Raye Moore [Raye.Moore@ipaper.com]

Sent: To: Tuesday, January 24, 2012 2:06 PM Sauer, Mark (DEQ)

Subject:

RE: 40 CFR subpart applicability

Mark,

We will not have Secondary Fiber Deink in the IP project. If we repurpose we may have deinking, but under current scope of project deinking is not included.

Raye

From: Sauer, Mark (DEQ) [mailto:Mark.Sauer@deq.virginia.gov]

Sent: Tuesday, January 24, 2012 1:23 PM

To: Raye Moore

Subject: 40 CFR subpart applicability

Raye -

I'm working on the modification for your VPDES permit, and in the past we applied Subpart B, Bleached Papergrade Kraft and Soda and we also applied Subpart I Secondary Fiber Deink; would any other subparts apply to the new product or process, and would Subpart I apply to the new product or process?

I want to make sure we get the calculations correct up front so we don't waste time having to do them again later on — we don't have much (or any) time to waste in trying to get this permit out as quick as possible.

Thanks, I appreciate it.

Mark Sauer DEQ-TRO Water Permits Section 757-518-2105 mark.sauer@deq.virginia.gov



COMMONWEALTH of VIRGINIA

DEPARTMENT OF HEALTH

## OFFICE OF DRINKING WATER

Southeast Virginia Field Office

830 Southampton Avenue '<del>Suite 20</del>58 Norfolk, VA 23510 Phone (757) 683-2000 Fax (757) 683-2007

Tidewater Regional

Office

## **MEMORANDUM**

TO:	O: Mr. Mark H. Sauer Environmental Engineer Senior Department of Environmental Quali			DATE: FE	— - ·····				
FROM	I: Dar Eng	tiel B. Horne, PE ineering Field Direc	otor DBH						
CITY/	COUNTY:	ISLE OF WIG	HT COUNTY						
PROJI	ECT TYPE:	□ New	☑ Renewal or	Revision					
$\overline{\mathbf{Q}}$	VPDES	□ VPA	□ VWPP	□ ЈРА	☐ Other				
$\overline{\mathbf{A}}$	Number: <u>VA0004162</u>								
OWNE	OWNER/APPLICANT: International Paper Company / Ms. Sheryl S. Raulston, EHS Manager								
PROJI	ECT: <u>Inte</u>	rnational Paper – Fr	anklin Mill VPDES	S Permit Modific	ation				
Ø	There are no public water supply raw water intakes located within 15 miles downstream or within one tidal cycle upstream of the discharge.								
	The raw water intake for the waterworks is located miles [downstream/upstream] of the discharge. This should be a sufficient distance to minimize the impacts of the discharge. We recommend a minimum Reliability Class of for this facility.								
	The raw water intake for the waterworks is located miles [downstream/upstream (within one tidal cycle)] of the discharge.								
	Please forward a copy of the Draft Permit for our review and comment.								
	Comments:								

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Ernest G. Johnson, Jr., PE

V.D.H. - Office of Drinking Water, Field Services Engineer

District Engineer

Prepared by:

pc:

Karen Remley, MD, MBA, FAAP State Health Commissioner

Director, Office of Drinking Water

J. Wesley Kleene, PhD, PE

OF HEALTH Protecting You and Your Environment WWW.VDH.VIRGINIA.GOV



P. O. Box 178 Frenklin VA 23851-0178

August 31, 2011

UPSTracking# 12 294 39349 5468 6719

Department of Environmental Quality Tidewater Regional Office 5636 Southern Goulevard Virginia Beach, VA 23462

Attention: Pollution Response Coordinator

Subject: Required 5-Day Letter for Hurricane Irene Environmental Incidents - VPDES Permit No. VA0004162

To Whom It Way Concern:

This letter is being submitted to satisfy the requirements of the International Paper VPDES Permit No VA0004162. Hurricane Irene caused 12.84 inches of rain to fall on the Franklin millisite on August 27<sup>th</sup> and August 28<sup>th</sup>, 2011. We had wind gusts up to 59 MPH and rainfall totaling 12.76 inches in a 24 hour period (the 25 year storm event rainfall is 6.5 inches of rain in a 24 hour period). Our environmental systems are designed to contain a 25 year storm event. Many of the systems were overloaded due to the excessive rainfall, and the pumping capacities of the systems were exceeded. Due to adverse weather conditions, start and stop times of discharges are based on best estimates available. The following is a description of what was reported by phone to Mark Sauer of DEQ on August 27<sup>th</sup> and 29<sup>th</sup>, 2011. There were four overflows/discharges from environmental systems due to Hurricane Irene. These were all reported under one IR number.

A. Incident Report (IR) Number: 2012-T-0526

INCIDENT #1: Landfill Leachate Collection Pond Dike Breech

 Description of nature and location of discharge. Landfill leachate overflow from collection pond at active landfill (Permit #504). The leachate ran overground, eventually draining to Lee's Mill Pond.



- Cause of discharge: Rainfall event exceeded design capacity of system for 25 year storm event. Collection pond dike was breeched approximately 12 inches from top of dike.
- 3 Date of discharge: August 27, 2011 at 2:40 PM
- 4. Length of time of discharge: Estimated to last until 5:00 AM August 28, 2011.
- 5. Volume of discharge: unknown
- 6. Steps planned or taken to reduce, eliminate or prevent recurrence: Immediately after rain event was over, contractors made temporary repairs to dike. Permanent repairs will be made shortly. Leachate pumps brought collection pond levels down to normal. Rainfall exceeded design capacity for 25 year storm event.

## INCIDENT #2: Highground Stormwater Retention Pond Overflow

- Description of nature and location of discharge: Stormwater overflow from Highground (closed landfill) stormwater retention pond to Washole Creek. This stormwater is normally collected and pumped to our effluent treatment system.
- 2. Cause of discharge: Rainfall event exceeded design capacity of system for 25 year storm event. Rate of rainfall from this event exceeded the backup diesel pump capabilities.
- 3. Date of discharge: August 27, 2011 at 3:00 PM
- 4 Length of time of discharge: Estimated to last until 1:00 PM on August 28, 2011
- 5. Volume of discharge: unknown
- Steps planned or taken to reduce, eliminate or prevent recurrence: Prior to storm event, stormwater retention pand levels were pumped down as low as possible. The primary pump lost power due to failure of electrical circuit during storm, and the backup diesel pump could not keep up with flows. After the storm was over, the electrical power was restored to the primary pump and along with the diesel pump, the pend level was lowered. Rainfall exceeded design capacity for 25 year storm event.

## INCIDENT #3: South River Sewer Overflow

- 1. Description of nature and location of discharge. Stormwater that fell on the Power/Recovery area of the mill discharged through a point source in our flood wall dike when the stormwater level reached a 25 year storm event. This stormwater flowed to the Blackwater River. Our systems are designed for 25 year storm events.
- 2. Cause of discharge: Rainfall event exceeded design capacity of system for 25 year sturm
- 3. Date of discharge: August 27, 2011 at 5:00 PM.
- 4. Length of time of discharge: Estimated to last until 11:30 PM August 27, 2011
- 5. Volume of discharge: unknown



6. Steps planned or taken to reduce, eliminate or prevent recurrence. Flood wall was installed to protect the mill against rising Blackwater River levels after the flood produced by Hurricane Floyd Inundated Franklin and the mill in 1999. Normal rainfall amounts up to a 25 year storm event are sent through our effluent treatment system. At rainfalls exceeding our design capacity of a 25 year storm event, the stormwater that falls in this Power/Recovery area is discharged by design through an opening in the flood wall.

## INCIDENT #4: Sawmill Stormwater Release

- 1. Description of nature and location of discharge: The pipeline that carries effluent/stormwater from Sawmill over the railroad tracks and places it in the milt's effluent treatment system broke off its supports during the high winds of Hurricane frene. The pipeline broke, releasing the stormwater to the railroad tracks below, which are located between the Sawmill and the Mill site. This stormwater drained to the Blackwater River.
- Cause of discharge. Pipe line conveying effluent/stormwater was damaged due to high winds
- 3. Date of discharge: August 27, 2011 at 7:00 PM
- Length of time of discharge: Estimated to last until 4:00 PM August 28, 2011
- 5. Volume of discharge: unknown
- Steps planned or taken to reduce, eliminate or prevent recurrence: The pipeline was repeited following the storm event. Additional supports to pipe will be installed.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquity of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of the and imprisonment for knowing violations.

If you have any questions regarding these incidents, you may call me at (757) 569-4558.

Sincerely,

June 1 Continue

Shery S. Raulston

EHS Manager

ENVIRONMENTAL EXCELLENCE